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ABSTRACT

This book is designed to assist school districts in career guidance planning for high school students in general and minority students and females in particular. It is also designed to encourage cooperation among educational institutions, business, and industry groups within New York State. Descriptions are provided of programs, internships, scholarships, and other career exploratory programs in the mathematics, science, and related high technology areas. Information for each entry includes: contact person's name, address, and telephone number; program title; a brief description of its purpose; target population; requirements for participation (if any); and services available, including scholarships (if any). Entries are listed: (1) geographically, by the eight post-secondary regions of New York State, and (2) alphabetically by program title for statewide and nationwide initiatives. Also provided is an annotated list of mathematics and science activities for the post-secondary population. These activities (arranged alphabetically by sponsoring agency) include degree programs, support services, and other assistance for high school graduates; re-entry women; matriculating college students; and graduate students aspiring to higher level programs. Special programs in mathematics and science for females and minority groups are included in this listing. (JM)

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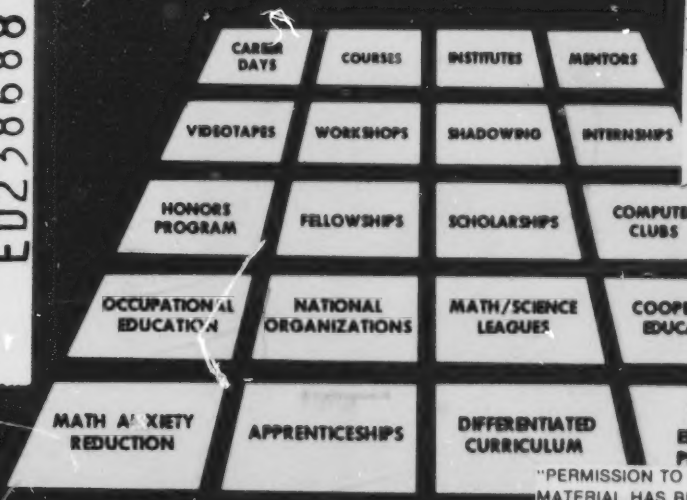

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Joan Arnold

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Marjorie E. Rush

FOREWORD

Increasing attention is currently being focused upon the problem of inadequate preparation of many secondary school students in mathematics and science education. There are many factors related to this problem including the decline in the numbers of students selecting advanced mathematics and science courses and the growing shortages of certified mathematics and science teachers.

Many school districts, postsecondary institutions, businesses and industries in New York State have instituted programs, internships, scholarships and other career exploratory programs in the math, science and related high technology areas for secondary school students. The Division of Civil Rights and Intercultural Relations conducted a survey of these groups to identify these programs and services and has compiled the results of that survey in this publication.

Programs designed to increase female and minority student participation in these areas are of particular interest due to the traditional under-representation of these groups in higher level math and science courses and reduced career opportunities. **Bold type** has been used to identify programs that are targeted for females and minority students.

Opportunities for Exploring Math/Science Careers has been designed to assist school districts in the career guidance planning for these students and to encourage a dialogue and sharing of human and material resources between elementary and secondary schools, post-secondary institutions and the business and industry groups within New York State. This publication documents examples of what has been accomplished and

seeks to inspire and encourage further development of creative methods to prepare our students for the growing technological world of the twenty-first century.

The Division of Civil Rights and Intercultural Relations would welcome information about additional math or science career exploratory programs not identified in this publication. Brief program descriptions along with program brochures may be addressed to the Division at Room 471 Education Building Annex, Washington Avenue, Albany, New York 12234.

Appreciation is extended to Cora Watkins, Assistant in Educational Integration and Michael Moon, Associate in Educational Integration, for their assistance in the development of this publication. Appreciation is also extended to the New York State Business Council; the New York State Department of Commerce; the New York State Advisory Council for Vocational Education, Industry/Labor Education Councils; and the Department's Office of the Coordinator for Minority Access to the Professions.

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(Programs and services for the postsecondary population are organized alphabetically by the name of the sponsoring agency.)

REGION I: WESTERN NEW YORK

ALLEGANY
CATTARAUGUS
CHAUTAUQUA
ERIE
NIAGARA
WYOMING

Contact Person(s): William A. Earl, Professor
New York State College of Ceramics
at Alfred University
Alfred, New York 14802
(607) 871-2111

Title or Program: Engineering and Science Summer Institute

Purpose: To inform high school juniors of the career opportunities in the sciences and engineering; to acquaint high school girls and boys with opportunities in math/science engineering and introduce the various roles engineering and science disciplines have in solving social problems

Target Group: High school juniors

Requirements: Engineering and Science Summer Institute: for juniors with an interest and demonstrated success in high school mathematics and science courses; up-to-date transcript and letters of recommendation are helpful though not required; $25 deposit with application (returned if application cannot be accommodated)

Alfred University Workshop for High School Juniors: for students who completed their junior year

Services: Students live on campus for a week, provided with an overview of every major field of engineering and science through laboratory work and "one-to-one" contact with University faculty; use of computer facilities; financial assistance is offered on a limited basis according to need and demonstrated ability; hands-on laboratory work on such topics as Computer Science, Electron Microscopy, Strength of Materials, Biology, Solar Energy, Manufacturing Science Fiber Glass

Contact Person(s): Dr. Richard D. Sands
Department of Chemistry
Alfred University
Alfred, New York 14802
(607) 871-2111

Title or Program: Competition Exam in Chemistry

Purpose: To provide an opportunity to win a scholarship to Alfred University and encourage interaction between college and high school faculty

Target Group: All high school students

Requirements: Current enrollment or completion of high school advanced placement courses

Services: A $500/year scholarship to Alfred University (if the winner enrolls at A.U.); cash prizes for first three places are $50, $25, and $15

Contact Person(s): Dr. Roger H. Moritz, Chairman
Division of Mathematics
Alfred University
Alfred, New York 14802
(607) 871-2111

Title or Program: William Varick Nevins III High School Mathematics Competition

Purpose: To interest high school students in mathematics and in mathematics at Alfred University in particular

Target Group: All high school students

Requirements: Selection by district personnel

Services: Monetary prizes to first three winners; scholarships available to one of the first five place winners of $500 for four years

Contact Person(s): John P. Murray
Director of Guidance
Buffalo Public Schools
807 City Hall
Buffalo, New York 14202
(716) 842-4683

Title or Program: **Buffalo Area Engineering Awareness for Minorities (BEAM)**

Purpose: To identify potential students, increase minority participation, provide role models, develop and provide information, illustrate that engineering education can lead to other fields, encourage science and math teachers to remain in their professions, and aid in the development of curricula for engineering students at all levels of education

Target Group: Minority students in junior and senior high school

Requirements: Selection by teachers and guidance counselors

Services: Industry throughout the area will adopt a school and provide engineer liaisons, resource materials, role models, presentations and industrial trips for students; SUNY at Buffalo personnel assists in coordinating postsecondary activities

Contact Person(s): Dr. Edwin Mirand, Program Director
Roswell Park Memorial Institute
666 Elm Street
Buffalo, New York 14263
(716) 845-2300

Title or Program: Roswell Park Memorial Institute Research Participation Program in Science

Purpose: To expose students to scientific research, developing their own philosophy of science and career planning through experience

Target Group: Advanced 11th graders

Requirements: Completion of 11th grade, biology, chemistry and math courses; recommendations from science teacher; essay on career goals

Services: An eight-week summer experience; students are assigned to such departments as biology, chemistry, physics, biochemistry, immunology, and pharmacology; direct supervision of a Senior Staff Investigator; includes seminars and stipend

Contact Person(s): Robert J. Grantham
Project Director
TEFCO Services, Inc.
70 Harvard Place
Buffalo, New York 14209
(716) 884-4817

Title or Program: **Open Horizons**

Purpose: To foster improved career and vocational planning among minority youth through exposure of role models

Target Group: Minority youth 12-20 years of age

Requirements: No special criteria

Services: Multi-media slide presentation--local persons with inspiring stories of accomplishment are portrayed as role models on a slide-tape presentation; vocation exploration manual contains information regarding each vocation, tips on how to get into the career and special assistance available for minorities; voc-rap sessions-meetings are scheduled for role-models to speak to minority youth; math and science fields are included

Contact Person(s):

Western New York:

Professor Louis F. Scholl
Trocaire College
110 Red Jacket Parkway
Buffalo, New York 14220
(716) 826-8420

Upper New York:

Professor Douglas Cashing
Department of Mathematics
St. Bonaventure University
St. Bonaventure, New York 14478
(716) 375-2024

Metro. New York:

Professor Sandra M. Pulver
Department of Mathematics
Pace University, Pace Plaza
New York, New York 10038
(212) 285-3477

Title or Program: American High School Mathematics Examination

Purpose: To initiate interest in mathematics and develop talent through the excitement of friendly competition

Target Group: High school students at all grade levels 9-12

Requirements: No special criteria

Services: High level problem-solving under time constraints

Contact Person(s): Gerald Baldelli, Principal
Edwin O'Reilly, Chairman
Science Department
Frontier Central School
4432 South Bay View Road
Hamburg, New York 14075
(716) 649-6001

Title or Program: Science Exploration Day

Purpose: To expose students to different career fields related to science

Target Group: Students in the 10th and 11th grades

Requirements: Interest in science, having pursued some courses above General Science level

Services: Exposure to different fields of the science area; career information supplied by community and professional groups in conjunction with the Niagara Frontier Science Supervisors Association

Contact Person(s): Steven A. Achramovitch
Program Coordinator or
Margaret L. Foster
Erie BOCES #1
2 Pleasant Avenue West
Lancaster, New York 14086
(716) 686-2093

Title or Program: Action Learning Internship Program

Purpose: To provide knowledge and career experience in an individual area of interest and to assist in developing skills to ensure student employability

Target Group: Senior high students who have a particular career interest and would like an alternative to classroom study

Requirements: Students must have enough school credit and flexibility within their schedule to participate on a part-time (8 hours per week) or full-time (24 hours per week) basis

Services: Nonpaid public and private sector placements throughout the Niagara Frontier providing first-hand learning experiences; student interns and coordinators meet regularly to reflect, assess, share ideas and experiences with other interns; interns have an opportunity to complete a project of their own design which is then presented to fellow students; credit is granted by all participating schools and sponsors forward letters of recommendation for college or future employment

Contact Person(s): Dr. Kenneth Bernard
Mr. Francis Higman
Department of Mathematics
Niagara University
Niagara University, New York 14109
(716) 285-1212

Title or Program: High School Calculus Program

Purpose: To allow high school students to obtain college credit in calculus while still enrolled in high school

Target Group: Seniors at participating schools

Requirements: No special criteria

Services: Course registration, preparation for examinations and monitoring of course activity; teacher preparation by the University

Contact Person(s): Doug David
Orleans-Niagara BOCES
3181 Saunders Settlement Road
Sanborn, New York 14132
(716) 731-4176

Title or Program: A Diversified Enrichment Program for the Talented (Project ADEPT)

Purpose: To offer additional learning opportunities for gifted students through enrichment on topics from science and technology to arts and humanities

Target Group: Students in Grades 10-12 who meet at least 7 out of 10 criteria

Requirements: Consistent high academic achievement; interest in out-of-school activities; special skills and abilities in a particular area (i.e., arts, science, etc); actively involved in school/community activities; high potential achievement or intellectual curiosity although having erratic grade report; will profit from contact with a wide variety of students; possesses the skills and abilities to become involved in the continuing development and evaluation of the program

Services: Programs offered at the Orleans-Niagara BOCES, at Niagara County Community College or at various locations in the community; eighteen (18) 2½ hour sessions throughout the 1982-83 year covering many topics

REGION II: GENESEE VALLEY

CHEMUNG
GENESEE
LIVINGSTON
MONROE
ONTARIO
ORLEANS
SCHUYLER
SENECA
STEUBEN
WAYNE
YATES

Contact Person(s): Ruth Abramson
Corning Glass Works
HP-ME-I-CII
Corning, New York 14831
(607) 974-6687

Gale Smith
Chemung Co. Sewer District
1700 Lake Street
Elmira, New York 14901
(607) 733-8991

Ray Haglund
Chemung Co. Highway Department
803 Chemung Street
Horseheads, New York 14845
(607) 739-3896

Frank J. Dunn
Supervisor of Curriculum
Craig Andrews, Guidance Coordinator
Horseheads Central School District
Horseheads, New York 14845
(607) 739-5601

Title or Program: Math/Science Activities

Purpose: To introduce and encourage students to explore careers involving math and science

Target Group: High school students, grades 10-12

Requirements: No special criteria

Services: Engineering Day: for students in the 11th grade with background in math; visitation of one facility or industry that will provide a shadowing experience;

coordinated by Engineering Day Committee composed of representatives from Corning Glass Works, Chemung Co. Sewer District and Chemung Co. Highway Department

Shadowing for Math and Science Students: for students grades 10-12; visitation of business and industrial plants as introduction to the engineering and accounting fields

Field Trips to Research Facilities: for math and science students in grade 11; visitations to universities, corporations or independent research laboratories; introduction to opportunities for careers in research

Contact Person(s): Leo Pollock, Director
R.T.H. Program
Elmira College
Elmira, New York 14901
(607) 734-3911 Ext. 347

Title or Program: Respiratory Therapy Shadowing Program

Purpose: To acquaint high school students with the requirements and activities of a respiratory therapist

Target Group: High school juniors and seniors

Services: Students spend two days "shadowing" a therapist as duties are performed; exploring respiratory therapy as a career

Contact Person(s): Charles J. Searles, Director
BOCES #1 Monroe County
41 O'Connor Road
Fairport, New York 14450
(716) 377-4660

Title or Program: Occupational Education

Purpose: To provide vocational training for high school students

Target Group: No special criteria

Services: Includes courses such as Electronics, Computer Programming, Data Processing and Electricity

Contact Person(s): Robert C. Hart
Head Guidance Counselor
Newark Central School District
701 Peirson Avenue
Newark, New York 14513
(315) 331-5150

Title or Program: Community Resource Program

Purpose: To provide experiences for students that include close observation and working on a one-to-one basis with community resource persons

Target Group: All students grades K through 12

Requirements: Completion of a questionnaire through the Guidance Department, parental permission, and recommendations from parents and teachers

Services: Shadow Program: for high school students, grades 9 through 12, in career areas that students are considering as lifetime work;

Mentor Program: for all grade levels in area of interest

Contact Person(s): Carl Petroziello, Guidance Counselor
Odessa Montour Central School
Box 48
Odessa, New York 14869
(607) 594-3341

Title or Program: Industrial Engineers Day

Purpose: To acquaint students with actual work of engineers and technologists

Target Group: High school juniors and seniors interested in technology

Requirements: No special criteria

Services: Plant tour of Corning Glass Works, contact with Engineering Department personnel, observation of actual work, and discussion with administrative engineers

Contact Person(s): Barbara Whitney, Coordinator
York Junior-Senior High School
Route 63
Retsof, New York 14539
(716) 243-0300

Title or Program: Gateways

Purpose: To allow students to further investigate career opportunities in math and science areas

Target Group: Students in the 11th-12th grades

Requirements: Two years of science and math courses

Services: Mentors include doctors, lab technologists, nurses, and bank managers

Contact Person(s): Constance Mitchell
Community Relations Coordinator
c/o Industrial Management Council
12 Mortimer Street
Rochester, New York 14604
(716) 325-5139

Title or Program: **Program for Rochester to Interest Students in Science and Math (PRISM)**

Purpose: To assist minority students in discovering and preparing for career opportunities in high technology areas

Target Group: Minority students in junior and senior high schools

Requirements: Students in grades 9-11 must be in the top quartile of their class based on standard math achievement tests and have demonstrated an interest in science and math; participation in Science Teams requires Regents-level courses in math and science throughout high school years and grades well above average

Services: Hands-on, problem-solving teaching supplements; role-models recruited from the technical and professional staffs of local companies, summer workshops, student internships within business/industry, engineering orientation on a college campus, and pre-college enrichment courses

Contact Person(s): Anita Jaehn, Coordinator
Monroe Community College
1000 E. Henrietta Road
Rochester, New York 14623
(716) 424-5200 Ext. 5279

Title or Program: **Women in Technologies**

Purpose: To provide information about career opportunities in the engineering technologies and to assist in the preparation for entry into technical degree programs at Monroe Community College

Target Group: Female high school students and re-entry women

Requirements: Fee for workshops

Services: Counseling, noncredit workshops (i.e., Facing Math Fears, Exploring Careers in the Technologies), and offers a support group of Women in Trades and Technologies

Contact Person(s): Speakers' Bureau
RIT College of Science
Rochester Institute of Technology
One Lomb Memorial Drive
Rochester, New York 14623
(716) 475-2411

Title or Program: RIT's College of Science Speakers' Bureau

Purpose: To provide additional information on science careers

Target Group: Students in grades 10-12

Requirements: Classes of at least 15 students

Services: Individually designed programs that include lectures on a wide variety of math/science topics; on-site visit with hands-on experiences; RIT also has a 20-minute slide/tape show which can be coordinated with the speakers' Bureau presentation; areas covered include biology, chemistry, clinical sciences, mathematics and physics

Contact Person(s): Doug David
Orleans-Niagara BOCES
3181 Saunders Settlement Road
Sanborn, New York 14132
(716) 731-4176

Title or Program: A Diversified Enrichment Program for the Talented (Project ADEPT)

Purpose: To offer additional learning opportunities for gifted students through enrichment on topics from science and technology to arts and humanities

Target Group: Students in Grades 10-12 who meet at least 7 out of 10 criteria

Requirements: Consistent high academic achievement; interest in out-of-school activities, special skills and abilities in a particular area (i.e., arts, science, etc); actively involved in school/community activities; high potential achievement or intellectual curiosity although having erratic grade report; will profit from contact with a wide variety of students; possesses the skills and abilities to become involved in the continuing development and evaluation of the program

Services: Programs offered at the Orleans-Niagara BOCES, at Niagara County Community College or at various locations in the community; eighteen (18) 2½ hour sessions throughout the 1982-83 year covering many topics

Contact Person(s): R. Freed
R. Lafferty
Edward W. Spry Junior High School
119 South Avenue
Webster, New York 14580
(716) 265-3600

Title or Program: Math/Science

Purpose: To consider oneself in relation to job or career choice and recognize performance in academic areas

Target Group: Grades 7-9

Requirements: Varies (see below)

Services: Awards Night: best 7th grade student with high performance in science or math courses receives an award

Vocational Exploration Groups: for 9th graders; follow-up activities in a Career Resource Center

Contact Person(s): Don Traver
Jean Johnson
Bob Lafferty
Edward W. Spry Junior High
119 South Avenue
Webster, New York 14580
(716) 265-3600

Title or Program: Spry Junior High Ninth Grade Guidance Program

Purpose: To stimulate career exploration behavior

Target Group: 9th graders including district-based BOCES students

Requirements: Required program for all 9th graders

Services: Introduction to 9th grade guidance program; individual meetings with a counselor; independent exploration by students; group introduction to Area Career Planning Guide and computer science, design and communications, engineering and physical science, health and related occupations

Contact Person(s): Ralph Gardner
Xerox Corporation - Building #105
800 Phillips Road
Webster, New York 14580
(716) 422-3897

Title or Program: **Science Consultant Program**

Purpose: To involve students in positive learning experiences in science

Target Group: Minority students enrolled in 5th and 6th grades in Rochester City School Districts

Requirement: No special criteria

Services: Xerox engineers co-instruct with the teacher to make the learning experience in science pleasurable

3x

REGION III: CENTRAL NEW YORK

BROOME
CAYUGA
CHENANGO
CORTLAND
MADISON
ONONDAGA
OSWEGO
TIOGA
TOMPKINS

Contact Person(s): Anthony Renzi
Binghamton City School District
16 St. John Avenue
Binghamton, New York 13905
(607) 772-0101

Title or Program: Exploratory Occupational-Technical

Purpose: To enable students to have real experiences similar to course work in one of the occupation-technical subjects areas

Target Group: Students entering high school; primarily 9th graders

Requirements: Courses offered in computer graphics and other high technology-orientated areas

Services: Students experience hands-on activities, study career requirements, job availability and training needs

Contact Person(s): Judith Doherty or
Michael Kost
Guidance Office
Broome-Delaware-Tioga BOCES
Area Center
Upper Glenwood Road
Binghamton, New York 13905
(607) 729-9301

Title or Program: Providing Alternative and Vocational Education (Project PAVE)

Purpose: To encourage secondary students to investigate nontraditional careers

Target Group: Students in grades 11-12

Requirements: No special criteria

Services: A thirty-minute videotape developed by the BOCES which is available upon request

Contact Person(s): R. David Andrus (Computer Math)
Tom Bovuka (BCC Calculus - Computer Math)
Chenango Forks Central Schools
Box 204A, Gordon Drive
Binghamton, New York 13901
(607) 594-3341

Title or Program: Computer Math

Purpose: To provide an additional challenge and program to students, and acquaint students with computers

Target Group: Students in grade 5; varies (see below)

Requirements: Interest in math; top 10% of the class; varies (see below)

Services: Computer Math: for students in grade 5 with an interest in mathematics and ranking in the top 10% of their class; introduction to computers and world of industry; time donated by IBM computer specialist and university professor who teaches course on nine Saturday mornings

BCC Calculus - Computer Math: for students in grade 12 with an appropriate math background and some participation in an accelerated or Regents program; first-year college course conducted in cooperation with Broome Community College

Contact Person(s): Norman J. Sweeney, Superintendent
R. David Andrus, Director Education Communications
Chenango Forks Central Schools
Box 204A Gordon Drive
Binghamton, New York 13901
(607) 648-8511

Title or Program: "Real World"

Purpose: To provide primary information on careers in many fields including "high tech" areas

Target Group: Interested students in grade 12

Requirements: No special criteria

Services: Two classes taught by the Superintendent; discussions by professionals on different career areas; speakers on a daily basis; also includes interviewing, shadowing and visitations to businesses, academic institutions and government

Contact Person(s): Joan McTiernan
The Singer Company/Link Flight Simulation Division
Colesville Road
Binghamton, New York 13902
(607) 772-3011

Title or Program: The Singer Company/Link Flight Simulation Division

Purpose: To provide simultaneous secretarial experience for high school seniors with exposure to information and professionals in the engineering area

Target Group: High school seniors in Binghamton area

Requirements: At least 45 wpm, filing experience, secretarial courses

Services: One-year position for a maximum of 20 hours per week; experience in providing support and learning different aspects of the engineering departments

Contact Person(s): Craig King, Principal
Canastota Junior-Senior High School
Roberts Street
Canastota, New York 13032
(315) 697-2025

Title or Program: Project Advance Chemistry through Syracuse University

Purpose: To involve teachers and students in awareness of college level material, development of an advanced level chemistry course and additional background to assist students in follow-up course work

Target Group: College-bound seniors primarily oriented to science and math

Requirements: Students must have appropriate academic standing

Services: Inservice for teachers at Syracuse University prior to teaching course; serve as adjunct professors teaching college level chemistry in secondary school

Contact Person(s): Michael Gance, Assistant Principal
Joseph Rose, Counselor
Union-Endicott High School
1200 East Main Street
Endicott, New York 13760
(607) 757-2181/71

Title or Program: **Women in Engineering Program**

Purpose: To familiarize high school girls with the opportunities available to them in industry, particularly in the field of engineering

Target Group: High school juniors and seniors

Requirements: College-bound female students who possess an adequate academic record

Services: Students sign up through Guidance Office, transported to IBM Endicott where they meet women engineers, are introduced to careers with the use of sound films, filmstrips and other media; tour of the IBM Endicott manufacturing facility and other media

Contact Person(s): James M. Sirderan
Personnel Officer
Citizens Savings Bank
P.O. Box 400
Ithaca, New York 14850
(607) 273-7111

Title or Program: Citizen's Savings Bank's Student Teller Program

Purpose: To provide training opportunities for high school students and develop a pool of qualified candidates for future employment openings

Target Group: Ithaca area high school students in sophomore and junior years

Requirements: Interest in banking and business; passing score on teller skills test; participation in the Ithaca High School Bank Club

Services: Training in customer relations, general banking and organization; paid part-time employment and work experience

Contact Person(s): Dr. Ron Simmons
Assistant Dean
Cornell University - College of Engineering
167 Olin Hall
Ithaca, New York 14853
(607) 256-1000

Title or Program: **Minority Introduction to Engineering**

Purpose: To expose high school juniors to engineering fields

Target Group: Blacks, Hispanics, American Indians

Requirements: Completion of 11th grade, submission of transcripts, recommendations and application

Services: Summer program on campus for minority high school juniors; financial aid seminars; exposure to computers

Contact Person(s): Richard Sick
Johnson City High School
666 Reynolds Road
Johnson City, New York 13790
(607) 729-9211

Title or Program: Science and Technology Division

Purpose: To provide an area of study for students who have an interest in math/science related fields

Target Group: Students who have math/science related sequences and have an interest in technical postsecondary education

Requirements: 9-12th grade math/science majors

Services: Program offerings include engineering, medicine, pure science and/or mathematics, and various specialities in technology; career and vocational guidance; industrial visitations, special lectures, and resource people are available

Contact Person(s): Carol Korutz
Wilson Hospital Staff Development
33 Harrison Street
Johnson City, New York 13790
(607) 773-6304 (office)
(607) 773-6000 (hospital)

Title or Program: Internship for Graduate Nurses

Purpose: To develop leadership skills to perform their roles as registered nurses

Target Group: Graduates of a nursing program

Services: Provision of time, experience and classes as part of internship program

Contact Person(s): Charles Mattson, Project Coordinator
Marilyn Katz, Project Coordinator
Counseling Department
Onondaga Community College
Route 173
Syracuse, New York 13215

Title or Program: **A Support Program for Women Enrolling in the Engineering Technologies**

Purpose: To develop a campus-based support system to maintain contacts with cooperating institutions for recruitment of women into the engineering technologies

Target Group: High school graduates and re-entry women

Services: Sharing of information and resources with area high schools and community organizations; counseling women concerning engineering technology programs through application procedures, training and job placement; organizing a support group among female students enrolled in the technologies, planning and implementing seminars and programs; continuation and extension of contacts with industry

Contact Person(s): Daniel E. Dressel
Vestal Central Schools
Administration Building
Vestal, New York 13850
(607) 757-2241

Title or Program: Career Exploration Program

Purpose: To provide "hands on" experience in several possible career fields

Target Group: High school juniors

Requirements: No special criteria

Services: Development of career field depending on interest; support counseling is provided from both school and industry

REGION IV: NORTHERN NEW YORK

FRANKLIN
JEFFERSON
LEWIS
ST. LAWRENCE

Contact Person(s): A. George Davis
Clarkson College of Technology
Potsdam, New York 13676
(315) 268-6400

Dr. Edward Miziazek
Clarkson College of Technology
Potsdam, New York 13676
(315) 268-6400

Warren Wisner
H.C. Williams Senior High School
99 State Street
Canton, New York 13617
(315) 386-8561

Susan Hayden
H.C. Williams Senior High School
99 State Street
Canton, New York 13617
(315) 386-8561

Title or Program: Clarkson College Outreach Programs

Purpose: To provide awareness and stimulate interest and enrichment activities in math/science areas

Target Group: Generally junior and senior high school students; also gifted students in relevant areas

Requirements: Varies (see below)

Services: Clarkson College Enrichment Program: courses for juniors and seniors in science, math, computers and chemistry on Saturday morning

Society of Women Engineers: three-day program in science, math, engineering and management

Career Speakers and Shadowing: contact people who are working or studying in the field of math, science, and engineering

Gifted Student Programs: gifted students engage in enrichment activities

Contact Person(s): Robert R. Raymo
Director of Admissions
SUNY Canton (Agricultural and Technical College)
Canton, New York 13617
(315) 386-7123

Title or Program: **Careers for Women in Engineering Technologies**

Purpose: To expose females to the Engineering Technologies and encourage them to enter postsecondary technical programs

Target Group: High school females

Requirements: Identification of interested college-bound females who are presently taking a math/science sequence; academic average of 80 or better

Services: Introduction to the variety of engineering areas; information on preparing to enter Engineering Technology occupations; group discussions with women currently employed and/or enrolled in the Engineering Technology program; campus tour

Contact Person(s): Robert B. Raymo
Director of Admissions
SUNY Canton (Agricultural and Technical College)
Canton, New York 13617
(315) 386-7123

Title or Program: SUNY Road Show

Purpose: To introduce the State University and give a picture of college life in general

Target Group: High school juniors and seniors

Requirements: Access to screen for movie presentation

Services: One-hour presentation for students interested in attending SUNY system; description of admission, financial aid procedures, and college life; an informal discussion with college representatives; participation by SUNY Canton North Country Community College and Colleges of Arts and Sciences at Plattsburgh and Potsdam

Contact Person(s): Jack Adams
Jeff Wisher
Saranac Lake High School
Saranac Lake, New York 12983
(518) 891-4452

Bob Raymo (Canton ATC Career Day)
Admissions
SUNY Canton Agriculture and
Technical College
Canton, New York 13617
(315) 386-7011

Title or Program: Career Awareness Activities

Purpose: To make all students aware of available opportunities through exposure to career options

Target Group: High school students

Requirements: Varies (see below)

Services: Representative Visitations: for all students grades 9-12; periodic visitations by college representatives, armed services and employer representatives; explanation of training possibilities

Career Awareness Workshops: for all students grades 9-11; use of computer career resources, career briefs and booklets, and community resource people

Canton ATC Career Days: for all students grades 11-12, specifically women, interested in the technical fields, one day conference, visit SUNY Canton campus, attend lectures and demonstrations,

dialogue with persons in engineering technology divisions; second career day for juniors interested in attending Canton ATC for Data Processing and Industrial Technology; tour of campus and sessions with Division chairperson are part of the program.

Contact Person(s): Dave Moore
Jefferson Community College
Watertown, New York 13601
(315) 782-5250

Title or Program: Career Day

Purpose: To expose high school seniors and college students to local career opportunities

Target Group: Area high school seniors, community college students, and community adults

Requirements: No special criteria

Services: Representatives of local companies and agencies offering information regarding career opportunities

Contact Person(s): Charles A. Brox, Sr.
Jefferson Community College
Financial Aid Office
Watertown, New York 13601
(315) 782-5250 (Ext. 246, 236)

Title or Program: Walker Family Engineering Scholarship, Herring Engineering Scholarship Program at Jefferson Community College and Clarkson College of Technology

Purpose: To attract extremely qualified applicants to the Engineering Science program

Target Group: High school seniors

Requirements: Varies (see below)

Services: Walker Family Scholarship--high school transcript; four letters of recommendations; two visits to campus; two annual $1000 scholarships to Engineering majors, each to a freshman and senior

Herring Engineering Scholarship Program--top 10% of the class or an average of 90% and above; initially apply at Jefferson Community College for the Engineering Science Curriculum and transfer to Engineering programs at Clarkson College; five scholarships per year, providing stipends from $500 to $2500 per year

REGION V: NORTHEAST NEW YORK

ALBANY
CLINTON
COLUMBIA
ESSEX
FULTON
GREENE
HAMILTON
HERKIMER
MONTGOMERY
ONEIDA
RENSSELAER
SARATOGA
SCHENECTADY
SCHOHARIE
WARREN
WASHINGTON

Contact Person(s): Harry Hamilton
National Association for the
Advancement of Colored People
93 Livingston Avenue
Albany, New York
(518) 462-1823

Title or Program: **Medical Scholarship Fund**

Purpose: To assist black students in pursuit of a medical degree

Target Group: Black students

Requirements: Enrollment in an accredited program leading to a doctoral and/or dental degree

Services: Receive financial award that varies from year to year

Contact Person(s): Victor DeSantis
SUNY Albany
College of Continuing Studies
1400 Washington Avenue
Albany, New York 12222
(518) 455-6129

Title or Program: Experience Programs for the Gifted

Purpose: To provide enrichment courses and exposure in subject areas unavailable in secondary or elementary schools and to open the University's resources to the Capital District's brightest students

Target Group: Students in grades 1-12

Requirements: Varies according to activity; all students must be recommended by someone at their school who is familiar with their level of ability

Services: All SUNY facilities including recreational facilities, campus center, and library open for experiential activities in a variety of academic areas

Contact Person(s): Trish DeShaw
Whitney Young Health Center, Inc.
Lark and Arbor Drives
Albany, New York 12207
(518) 465-4771

Title or Program: **Whitney M. Young, Jr. Scholarship Fund Inc.**

Purpose: To support deserving students from the greater Albany area in completing their training at Albany Medical College

Target Group: Minority students

Requirements: Demonstrated financial need; willing to serve the high-risk poor in the Albany area upon graduation or establish a private practice in the Albany area with the understanding that a predetermined percentage of time would be used to treat medically underserved patients; one year service for each year of support

Services: Scholarships vary in amount

Contact Person(s): Lawrence R. McGoldrick, Coordinator
Special Programs and Services
Rensselaer-Columbia-Greene
BOCES
P.O. Box 26, Rte. 150
Brookview, New York 12026
(518) 732-7266

Title or Program: Seminar: Chemical Engineering in Industry

Purpose: To heighten the awareness and understanding of high school students of the specifics of metallurgy and its application in the field of chemical engineering

Target Group: Gifted high school seniors

Requirements: Completion of a high school chemistry course and demonstrated interest

Services: Contact with an engineer from the General Electric Silicone Plant in Waterford, New York to meet with a select group of students to discuss the chemical process devised from research and development activities at the Silicone Facility; also includes plant tours, lectures, demonstrations and career-oriented discussions

Contact Person(s): Thomas Greenwood
Guidance Director
Northeastern Clinton
Central School
Champlain, New York 12919
(518) 298-8681

Title or Program: Ayerst Laboratories Work Observation Experience

Purpose: To assist students in exploring a variety of highly technical career fields

Target Group: High school students

Requirements: Seniors who have 3 years of math and science, are in the upper 20% of their class, and are selected by the Science Department and school administration

Services: Students observe in six areas: quality control, analytical research and development, technical services, animal research lab, data processing, and pharmacy research and development

Contact Person(s): Black Nurses Association of the Capital District
P.O. Box 515
Delmar, New York 12054
(no phone number available)

Title or Program: **Black Nurses Association of the Capital District**

Purpose: To develop leadership potential of black youth interested in the health profession and improve health care of the community

Target Group: Black youth and community at large

Requirements: Only licensed nurses and student nurses may join the Association

Services: Planned program of community education through panel discussions, seminars, lectures, workshops and the mass media; special attention to career guidance of youth groups

Contact Person(s): Lee Brown, Admissions Officer
Adirondack Community College
Bay Road
Glens Falls, New York 12801
(518) 793-4491

Title or Program: Early Admissions

Purpose: To provide an opportunity for gifted high school students to enroll in regular college courses

Target Group: Talented high school juniors and seniors

Requirements: At least 85 average or other indicators of special talent

Services: Full- or part-time enrollment in college-credit courses on campus; often math/science courses

Contact Person(s): Donna Ross, Career Education Coordinator
Rita Fassett, Assistant to Career Education Coordinator
Guilderland Central High School
Guilderland Center
Guilderland, New York 12085
(518) 861-8591 (Ext. 131)

Title or Program: Coordinated Career Education Program (New York State Validation)

Purpose: To increase knowledge and activities related to career development, to improve relevant attitudes through the infusion of career education into the curriculum, to encourage students to investigate careers that match their interests, abilities, and skills

Target Group: Students in grades 6-12

Requirements: No special criteria

Services: Grade 6 - emphasis on values related to career selection

Grade 7 - emphasis on life styles related to career selection

Grade 8 - emphasis on decision-making (specific unit on women working)

Grade 9 - infused career curriculum in English, Social Studies, and Mathematics

Grade 10 - DAT testing, interpretation and relating career choice to aptitudes

Grade 11-12 - "Who, What, Where," a ten-week elective that increases student self-awareness and offers community-based experiences with emphasis on technological careers requiring math and sciences; speakers and field trips are arranged to give students the opportunity to speak with persons and visit various work environments

Contact Person(s): Nick Dudish
Herkimer-Fulton-Hamilton-Otsego BOCES
Gros Boulevard
Herkimer, New York 13350
(315) 866-6040

Title or Program: Occupational Education

Purpose: To provide educational opportunities to those students interested in science and other technological areas

Target Group: Interested high school students; females disenchanted with the Nursing program; above average students

Requirements: Requirements vary according to the course program

Services: Theory application, and experiential activities in the areas of electronics and computer technology, biomedical electronics, advanced computer training, and general electronics

Contact Person(s): Richard T. Campbell
Salem Central School
East Broadway
Salem, New York 12865
(518) 854-7600

Title or Program: Mathematics Club

Purpose: To stimulate interest in mathematics among students of higher-than-average ability, and encourage consideration of math-related careers

Target Group: College-bound high school students

Requirements: High school students with an interest in mathematics, a desire for fun and a little competition

Services: Competition with other schools in a tri-county mathematics league during the winter months

Contact Person(s): Sharon Arpey
Assistant to the Dean of
Special Programs
Skidmore College
Saratoga Springs, New York 12866
(518) 584-5000 (Ext. 264)

Title or Program: Basic Discoveries

Purpose: To provide students an understanding of the capabilities of the micro-computer through a hands-on approach

Target Group: Elementary, junior and senior high school students

Services: Non-credit computer education program with courses that vary in time and dates; participants receive a certificate upon completion of the program; financial assistance available with demonstrated financial need

Requirements: Registration fee of $10 and tuition averages between $125-$150 per program

Contact Person(s): Selma Harwood
Special Programs Office
Skidmore College
Saratoga Springs, New York 12866
(518) 584-5000

Title or Program: Program for Acceleration at Skidmore, Summer (PASS)

Purpose: To provide high school students an opportunity to earn college credits while still in secondary school

Target Group: High school students

Requirements: Juniors and seniors with strong academic records; application fee, high school transcript and letter of recommendation; $1610 in room and board, tuition and activities

Services: A summer program with a well-balanced liberal arts curriculum including courses in business, chemistry, computer, economics, geology, mathematics and physics

Contact Person(s): G.E. Corporate Research and Development Explorer Scout Post
Milton Bloomer, Electrical Engineer
P.O. Box 8
Schenectady, New York 12301
(518) 385-8321

Title or Program: G.E. Corporate Research and Development Explorer Scout Post

Purpose: To allow students to explore potential career interests in science and technology

Target Group: Males and females

Requirements: Ages 14-20

Services: Weekly meeting at G.E. facilities

Contact Person(s): Jack Adams
Jeff Wisher
Saranac Lake High School
Saranac Lake, New York 12983
(518) 891-4452

Bob Raymo (Canton ATC Career Day)
Admissions
SUNY Canton Agriculture and
Technical College
Canton, New York 13617
(315) 386-7011

Title or Program: Career Awareness Activities

Purpose: To make all students aware of available opportunities through exposure to career options

Target Group: High school students

Requirements: Varies (see below)

Services: Representative Visitations: for all students grades 9-12; periodic visitations by college representatives, armed services and employer representatives; explanation of training possibilities

Career Awareness Workshops: for all students grades 9-11; use of computer career resources, career briefs and booklets, and community resource people

Canton ATC Career Days: for all students grades 11-12; specifically women, interested in the technical fields, one day conference, visit SUNY Canton campus, and attend lectures and demonstrations

Contact Person(s):

Schenectady, Early Engineering Recruitment
Gary Flanagan
Building 43
1 River Road
Schenectady, New York 12345

Schenectady, Field Engineering Orientation
Engineering Division
K.P. Joseph
Building 2-225
1 River Road
Schenectady, New York 12345

Schenectady, Pratt Institute
Summer Weeks Engineering Program
W.J. Kronk
Building 2-225
1 River Road
Schenectady, New York 12345

Schenectady, G.E. Schenectady
PIMEG
All Schenectady Area Engineering Components
Gary Flanagan
1 River Road, Building 43
Schenectady, New York 12345
(518) 385-5558

Human Resource Programs
G.E. Corporate Research and Development
Frank D. Starkey, Manager
P.O. Box 8
Schenectady, New York 12301
(518) 385-8321

7x

Title or Program: **Program to Increase Minority Engineering Graduates (PIMEG)**

Purpose: To increase minority engineering graduates

Target Group: Minority students (blacks, Hispanics, Native Americans)

Requirement: Academic level of minority students include elementary, high school and college students depending upon the activity; scholarships usually given to students participating in the program; possess a letter of acceptance to a college Department of Engineering, written essay and review of high school transcript

Services: Co-op, workstudy and summer programs; scholarships for engineering college students; organized field trips to various schools to learn about engineering opportunities in higher education; organized activities such as math/science tutorial programs; scholarships ranging from $50-$3,000 upon acceptance to engineering Department of institution of higher education; inquire for additional requirements

Contact Person(s): Armand D. Severino
Assistant Principal/Head Technical Department
Mont Pleasant High School
Forest Road
Schenectady, New York 12303
(518) 370-8160

Title or Program: College Preparatory Technical Program

Purpose: To assist in the preparation of average college-bound students planning careers in the engineering and scientific professions

Target Group: All college-bound students interested in mathematics and physical sciences

Requirements: Offered for selection at 9th grade

Services: Courses include Engineering Drawing, Electro/Mechanical 10, Mechanics of Materials, Materials Laboratory, Electricity and Electronics, Advanced Placement Mathematics and Physics and Electrical Design and Construction

Contact Person(s): Alan Longshore, Superintendent
Schalmont Central School-Rotterdam
401 Duanesburg Road
Schenectady, New York 12306
(518) 355-6110

Title or Program: Four-Year Advanced Science-Mathematics Program

Purpose: To provide students with an opportunity to participate in programs and projects beyond the minimum requirements, and improve students academic achievement through concept of thought provocation.

Target Group: College-bound and electronically/technologically talented Schalmont students

Requirements: College-bound students in grades 9-12

Services: Physics/electronics laboratory; independent study; accelerated computer science courses; computer circuitry instruction; technical writing, study of technological research

Contact Person(s): Joan M. Krejci, Assistant Dean
Graduate and Continuing Studies
Union College - Wells House
1 Union Avenue
Schenectady, New York 12308
(518) 370-6288

Title or Program: "The College Experience"

Purpose: To involve students in an accelerated (college credit) program for high school students highlighting lab science, computer science, and engineering

Target Group: High school juniors with particular interest in females and minorities

Requirements: Completion of junior year of high school; high academic ability as demonstrated in high school transcript and PSAT/SAT scores; students live on campus for two weeks during the summer

Services: Career counseling, college academic advisement, and a "reality test" in a math/science technical area at the college level with the benefit of small classes and close personal attention; limited financial assistance is available according to need and merit

Contact Person(s): Center for Women's Education
Russell Sage College
Troy, New York 12180
(518) 270-2319

Title or Program: **Summer Program for Junior/Senior Women in Secondary School in Computer Science**

Purpose: To give high school females the opportunity to learn and consider computer programming as a possible career

Target Group: High school females

Requirements: Junior and senior high school students with honors; top 20% of class; approval of guidance counselor

Services: A four-week summer course on the Women's Campus of Russell Sage in Troy where female students take two courses, philosophy and computers for college credit; sessions on career options; one-half tuition scholarships are provided

Contact Person(s): Catherine J. Gaynor
Assistant Superintendent
Troy School District
400 Grand Street
Troy, New York 12180
(518) 271-8637

Title or Program: Improving Special Skills Through Computer Graphics

Purpose: To improve special and perceptual skills in mathematics

Target Group: College-bound high school students, particularly female, having an aptitude and/or interest in computer and technology

Requirements: All grade 10 Regents math students

Services: A self-paced tutorial computer program consisting of at least sixteen (16) forty-minute sessions as a supplement to regular classroom activities; computer programs created through a cooperative effort with Rensselaer Polytechnic Institute (RPI)

Contact Person(s): Anthony J. Perrone
Work Study Coordinator
Utica Free Academy
1401 Kemble Street Room 123
Utica, New York 13501
(315) 792-2258

Title or Program: Youth Employment Training Program

Purpose: A cooperative workstudy program for high school students designed to provide career awareness for students in a variety of math/science areas

Target Group: High school students who are economically at a disadvantage

Requirements: At least 16 years of age and enrolled full-time in high school; recommended by their counselor or classroom teacher, and meeting income guidelines established by the U.S. Dept. of Labor

Services: Provides job site training for students with specific skills and interest in math/science courses; job categories include occupational and physical therapy, dietician, radiology, zoology, and data processing; work study credit is received upon completion

Contact Person(s): Debbie Schipper
Utica National Insurance Group
P.O. Box 530
Utica, New York 13503
(315) 735-3321

Title or Program: Explorer Post 194 - Computer Science

Purpose: To expose interested high school students to computers and computer programming

Target Group: High school students

Requirements: At least 13 years of age and have entered 9th grade; students are chosen after a survey by the Boy Scouts of America

Services: Provides for "hands-on" experience using the equipment at Utica National Insurance; advisors on a volunteer basis

REGION VI: MID-HUDSON

DUTCHESS
ORANGE
PUTNAM
ROCKLAND
SULLIVAN
ULSTER
WESTCHESTER

Contact Person(s): Gene Penner
Career Education Coordinator
Monroe-Woodbury High School
Central Valley, New York 10917
(914) 928-2321

Title or Program: Internships

Purpose: To allow highly motivated students to obtain first-hand information about careers in medicine and other areas of interest

Target Group: High school seniors

Requirements: High average (85+); strong interest in medical career and other areas of interest

Services: An "off-school course" that matches interest with placement; school credit for a 10-15 week period; placements in hospitals, museums, courts and businesses; information about career area and necessary requirements for the profession

Contact Person(s): *Gene Penner
Career Coordinator
Monroe-Woodbury Senior H.S.
Old Dungerberg Road
Central Valley, New York 10917
(914) 928-2321

Title or Program: Introducing the Medical World: A Programmed Learning Experience for High School Students

Purpose: To provide an introductory learning program for a student considering a career in the medical field and can be used to assist in arranging cooperative education activity

Target Group: High school students and teachers

Requirements: No special criteria

Services: A sample outline of an introduction to the medical fields which include Nuclear Medicine, Personnel, Ambulance/Emergency Room, Dietary/Pharmacy, Pediatrics/Obstetrics, Medical Library/Computer and others

* Or the Division of Civil Rights and Intercultural Relations at (518) 474-3934 for copies of the sample outline developed by a Monroe-Woodbury graduate

Contact Person(s): Dorothy Goldwasser
Career Education Coordinator
Ann Freihofner
Work Experience Coordinator
Croton-Harmon High School
Old Post Road
Croton-on-Hudson, New York 10520
(914) 271-4713

Title or Program: Career Education

Purpose: To provide an area of study for students who have an interest in math/science-related fields

Target Group: All high school students

Requirements: Varies with the program

Services: Activities include internship program, shadowing, teacher/community resource file, and work experience program; on-the-job training at I.B.M., Hospital Laboratory and other institutions; referral for speakers familiar with careers in oceanography, engineering, and physics

Contact Person(s): Frank Hess
Ellenville High School
Maple Avenue
Ellenville, New York 12428
(914) 647-7100

Title or Program: Math/Science Activities

Purpose: To provide an opportunity for learning about computers and preparation for secondary education in science

Target Group: Varies (see below)

Requirements: Varies (see below)

Services: Computer Literacy: computer literacy for elementary schools which lead into computer programming courses at the high school level; supplemented with the National Mathematics Examinations and math/computer clubs

College Biology I and II: for high school seniors who have successfully completed Regents Biology and Chemistry; two-semester, eight-credit course in conjunction with Ulster County Community College; earn high school and college credit

Contact Person(s): Martin Petersen
Assistant Superintendent
Elmont Public Schools
Elmont Road
Elmont, New York 11003
(516) 354-4917

Title or Program: Science Laboratory Experience

Purpose: To develop a "hands-on" experience program in science at an early age

Target Group: All students grades 4-6 in two schools

Requirements: No special criteria

Services: Participation in experiments in a laboratory setting; engagement in the scientific method with the guidance of a science specialist

Contact Person(s): Elizabeth Lalor, Math Director
Freeport Union Free Schools
P.O. Box 50
Freeport, New York 11520
(516) 623-2100

Title or Program: Math Activities

Purpose: To interest, stimulate, and prepare young people for careers involving mathematics

Target Group: Varies (see below)

Requirements: No special criteria

Services: Mathlete Competition: (able math students, grades 5-12) development of high level problem-solving and mathematic skills

Independent Study Program: all interested students who wish to advance their knowledge of mathematics; meet with Department Chairperson to decide course of study, time and credit; independent study in computer programming is also available

Contact Person(s): Guidance Department
Livingston Manor Central School
Livingston Manor, New York 12758
(914) 439-4400

Title or Program: Lazare and Charlotte Kaplan Foundation

Purpose: To provide local scholarships for post-secondary education in all areas

Target Group: Livingston Manor Central School District and adjacent schools

Requirements: College-bound or trade school students with a demonstrated need; apply through Lazare Kaplan Committee or the school

Services: Scholarships vary between $200-$1,000 according to need

Contact Person(s): Dr. Lloyd Sherman, Director
SETH Program
Mt. Sinai School of Medicine
10 E 102nd Street, Room 123
New York, New York 10029
(212) 650-6089

Dr. Sol Charney
New Rochelle High School
265 Clove Road
New Rochelle, New York 10801
(914) 632-9000

Title or Program: **Secondary Education Through Health (SETH)**

Purpose: To prepare students for careers in health-related services

Target Group: Primarily minority groups with interests in medical technology and nursing

Requirements: Seniors and juniors with a 75% overall average

Services: Completion of high school curriculum combined with clinical field experience at Mt. Sinai Hospital in New York City

Contact Person(s): Maureen McGrane, Manager
Human Resources
Beckton Dickinson Immunodiagnostics
Mountain View Avenue
Orangeburg, New York 10962
(914) 359-2700

Title or Program: Beckton Dickinson Immunodiagnostics

Purpose: To expose young people to the business setting

Target Group: High school students

Requirements: No special criteria

Services: Participation in local high school career days; provide internships for college students

Contact Person(s): Esther Korin
Director of Career Education
Lynn Deutsch
Community Resource Developer
South Orangetown School District
Tappan Zee High School
Dutch Hill Road
Orangeburg, New York 10962
(914) 359-3807/9311

Title or Program: Career Internship Program

Purpose: To provide students with opportunities to explore careers of interest utilizing community resources

Target Group: Middle and high school students grades 8-12

Requirements: A minimum of 60 internship hours for 11-12 graders to earn one-half credit of social studies; attend school seminars; maintain a personal log; utilize a learning contract as a guide; and provide own transportation

Services: Work site visits; career exploration experiences; individual conferences and weekly seminars

Contact Person(s): Anne Brebbia
Pearl River High School
275 E. Central Avenue
Pearl River, New York 10965
(914) 735-3131

Title or Program: Health Careers

Purpose: Explore different health-related professions on site

Target Group: High school students

Requirements: One year of biology and chemistry (some flexibility)

Services: A two-part, one-semester course with one section focusing on anatomy and physiology in the classroom; eight weeks in Helen Hayes Hospital working one-to-one with a mentor in varied medical areas; guest speakers and personal contact with numerous professionals in the allied health fields

Contact Person(s): Dennis Dempster
Director of Admissions and Registrar
Dutchess Community College
Pendell Road
Poughkeepsie, New York 12601
(914) 471-4500

Title or Program: Early Admission Program

Purpose: To provide opportunities to explore math, science, computer technology and other areas at an early stage

Target Group: High school seniors and grades 10-11 with approval

Requirements: At least 10th grade with high school recommendations and/or school administration approval

Services: Educational career programs including science, math, computer science and data processing

Contact Person(s): Robert V. Kampf, Principal
Dutchess County BOCES
R.D. No. 1 Salt Point Turnpike
Poughkeepsie, New York 12601
(914) 471-9200

Title or Program: Elementary School Visitations

Purpose: To create an awareness of the varied technical career choices available at the secondary level at BOCES

Target Group: Elementary students grades 3-6

Requirements: No special criteria

Services: Visitation of the Technical Center led by technical students; question and discussion period; breakfast or lunch prepared by technical students; slide presentation and return visit to elementary schools by technical students

Contact Person(s): George B. Hooper, Division Chairman
Environmental Science
James E. Daly, Dean of Admissions
Marist College
82 North Road
Poughkeepsie, New York 12601
(914) 471-3240

Title or Program: Cary Arboretum Internship Program

Purpose: To provide an opportunity for students to engage in research experience

Target Group: Senior high school students to be admitted to Marist College; strong college preparatory curriculum throughout high school years; a "B" average, with a 1000 combined SAT or 23 ACT score; top 50% of the graduating class

Contact Person(s): Dr. Paul L. Steineck, Chairman
Division of Natural Sciences
SUNY College at Purchase
P.O. Box 337
Purchase, New York 10577
(914) 253-5000

Title or Program: Division of Natural Sciences

Purpose: To expose students interested in a science career to scientific concepts and a scientific setting

Target Group: High school students

Requirements: Recommendation of school personnel; interview by sponsor

Services: Registration for entry-level courses in Math, Biology, Physics, Chemistry and Environmental Sciences as non-matriculating student; contact with faculty in the fields listed above; experimental research

Contact Person(s): Thomas O'Connor
Supervisor Guidance
Margaret Flattery
Teacher in Charge,
Health Occupations
Harry B. Ward Occupational Center
970 North Griffing Avenue
Riverhead, New York 11901
(516) 288-6400

Title or Program: Business Education/Electronics/Health Occupations

Purpose: To provide high school students with the opportunity to take course in various occupational areas

Target Group: Students in grades 11 and 12

Requirements: No special criteria

Services: Courses in Data Processing, Electronic Systems Servicing and Health Assisting; hands-on training

Contact Person(s): Esther Cember
Ramapo H.S.
400 Viola Road
Spring Valley, New York 10977
356-4100 (Ext. 416)

Jim Dugan
Spring Valley Senior H.S.
Route 59
Spring Valley, New York 10977
(914) 356-4100

Title or Program: Career Apprenticeship Program (CAP)

Purpose: To provide interested and motivated students the opportunity to explore a career of interest by working with an adult mentor in the community

Target Group: High school students

Requirements: Maintain apprenticeship with a mentor in the community for school credit; attendance at workshops and seminars; individual interviews with the coordinator; submission of periodic reports, and an on-going personal assessment of the experience in a journal

Services: Adult mentors; career groups with special programming to meet the needs of students including guests lecturers, visiting sites of interest, special events and activities (i.e., Women's History Week or Expanding Your Horizons in Science and Mathematics); academic credit and certificates of achievements for students; letters and certificates of appreciation for mentors

Contact Person(s): Edith E. Searles
Assistant Dean of Faculty/Coordinator
Special Programs
Ulster County Community College
Stone Ridge, New York 12484
(914) 687-7621

Title or Program: **Exploring Careers for Women**

Purpose: To provide role-models of professional women in jobs focusing on science, chemistry, and math

Target Group: High school females and students on campus

Requirements: Screened by school Guidance Counselors

Services: Seminars on campus involving women in math/science areas

Contact Person(s): Allen B. Newton, Principal
Warwick Valley High School
West Street EXT
Warwick, New York 10990
(914) 986-1181

Title or Program: Senior Leadership Rotary Roll Exchange

Purpose: To provide an opportunity for interested seniors to participate in a leadership program involving the business community

Target Group: Senior high school students

Requirements: Participating students are responsible for all class work missed during the role exchange; appropriate attire; parental permission

Services: Student half-day role exchange in conjunction with the business community of the Town of Warwick; student develops written list of questions or activities of interest to conduct with the business person; dialogue and discussion with the business person regarding establishing of goals; student experiences the privileges and responsibilities of the business person (i.e., writing letters, meeting customers, inspecting a plant or problem solving); transportation is provided; evaluation conducted

Contact Person(s): John Scarfi, Coordinator
Putnam-Westchester BOCES
Pinesbridge Road
Yorktown Heights, New York 10598
(914) 245-2700 (Ext. 351)

Title or Program: Occupational Education

Purpose: To provide educational opportunities to those students interested in science and other technological areas

Target Group: Interested high school students

Requirements: Requirements vary according to the course program

Services: Provides theory, application and experiential activities in the following fields: Medical Assisting, Dental Assisting, Construction Technology, Data Processing, Audio/Visual Production, Electro Mechanical, and Electronic Services

REGION VII: NEW YORK CITY

BRONX
KINGS
NEW YORK CITY
QUEENS
RICHMOND

Contact Person(s): Raymond P. Zelazny
Director of Continuing Education
Queens College/CUNY
65-30 Kissena Blvd.
Flushing, New York 11367
(212) 520-7052

Title or Program: Saturday Morning Young Peoples' Program

Purpose: To assist younger students in finding new interests, developing individual talents and learning valuable skills that complement the regular school curriculum

Target Group: Youngsters between 5 and 14 years of age

Requirements: Registration fees

Services: Fall and spring courses in Science and Computers

Contact Person(s): Madeline Schmucker
Science Coordinator
The Bronx High School of Science
75 West 205th Street
Bronx, New York 10468
(212) 295-0200

Title or Program: Bronx High School of Science/Model Program for Developing Creativity in Science

Purpose: To identify gifted motivated science students and assist them in developing an independent scientific research project

Target Group: Interested and capable high school juniors

Requirements and Services: Entrance exam of verbal and mathematics segments; selection of 100 students for the research honors class; 10th year criteria includes: achievement levels in math and science, aptitude on entrance exam, motivation, and teacher recommendations based on observation and evaluative tools; 11th year criteria includes: performance and motivation in the tenth year program

Ninth year - "hands on" approach to learning techniques of the scientist (i.e., speculate, hypothesize and design); 1/2 year with 80-minute periods on two alternate days and one 40-minute period on last day of the week

Tenth year - a socratic method of teaching with emphasis on recognizing problems and setting up hypotheses; individual meetings with students to discuss hypotheses and problem selection for individual research; includes 40 weeks, 80 minutes (double periods) each day

Eleventh year - individual student guidance by a teacher or team of teachers regarding the students' proposed research; engagement in extensive research reading scientific papers and abstract information; and performance of laboratory work with a teacher, research scientists in hospitals and research institutes; written progress reports every six weeks and a written report at the end of the year; forty weeks, with two 80-minute classes on alternate days and one 40-minute class at the end of the week

Contact Person(s): Milton Kopelman, Principal
The Bronx High School of Science
75 West 205th Street
Bronx, New York 10468
(212) 295-0200

Title or Program: Outreach Program/Bronx High School of Science

Purpose: To motivate and stimulate critical thinking, to articulate lower school math and science curricula with high school curricula, to acquaint 7th and 8th grade students with technology and instruments used in the math/science areas, to introduce qualified students to the Bronx High School and to work with junior high school and intermediate school sciences and mathematics teachers in order to improve teaching methods with particular emphasis on high minority-concentrated, community school districts

Target Group: Seventh and eighth grade students who have been identified as gifted in School Districts #2, #4, #6, #9, #10; districts which have a high number of minority students

Requirements: Gifted students selected by district personnel

Services: Visitation of the high school once a week for eight-week cycles; work in the computer room and science labs; math and science teachers from Bronx High visit the junior high and intermediate school to work with their colleagues in introducing new topics, planning lessons, reviewing curricula, developing and implementing lab experiences and evaluating the Outreach Program

Contact Person(s): William Plummer
*c/o Community School District #9
P.S. 55
450 St. Pauls Place
Bronx, New York 10456
(212) 992-0300

Title or Program: **Science Power Station Project**

Purpose: To increase the number of minority group students entering careers in science

Target Group: Elementary minority students

Requirements: Students in grades 3-6; scores on grade level and aptitude for science; standardized test

Services: Hands-on experience in science and computer programming with the supervision of college students majoring in both areas

* Program is sponsored by the New York Urban League in cooperation with the Children's Television Workshop, producers of 3-2-1 Contact and The Electric Company.

Contact Person(s): Al Finkelstein
District Health Supervisor
Community School District 18
755 East 100th Street
Brooklyn, NY 11236
(212) 257-7500

Title or Program: Health Careers Program

Purpose: To expose students to various opportunities within the medical careers area with particular interest in females and minorities

Target Group: All students grades 7-9

Requirements: No special criteria

Services: Guest speakers, visitation of medical facilities, and introduction of basic medical skills (i.e., blood pressure measurement, hearing testing, vision testing, blood typing)

Contact Person(s): Barbara Gerard, Project Director
Angela Bazley, Director
Center for Staff Development
The Office of Bilingual Education
131 Livingston Street, Room 501
Brooklyn, New York 11201
(212) 596-8944

Title or Program: **Project MAS (Math and Science)**

Purpose: To develop language competencies with a focus on math and science instruction

Target Group: Middle grade Limited English Proficient (LEP) students from New York City Community School Districts #7 and #12

Requirements: Grade level 4-8

Services: Instructional program integrating math and science subject matter into the students' English language learning experiences; in-service for participating bilingual teachers and paraprofessionals

Contact Person(s): Vera L. Hannenberg, Director
Planning, Proposal Development and Evaluation Unit
Office of Occupational and Career Education
New York City Public Schools
110 Livingston Street, Room 516
Brooklyn, New York 11201
(212) 596-4061

Title or Program: High Tech Program

Purpose: To provide an opportunity for students to explore and gain knowledge of the major technical fields and prepare for postsecondary training in high technology careers

Target Group: High school students

Requirements: Participation in a three-year sequence (grades 10-12)

Services: Introduction to broad areas in specialties; work experience, interaction with postsecondary institution, career guidance and field trips; specialties include electronics, electro-mechanical, industrial processes, drafting and computer technology

Contact Person(s): Prof. Sankar Sastri
Dean Ronald W. Holloway
New York City Technical College
of CUNY
300 Jay Street
Brooklyn, New York 11201
(212) 643-8153

Title or Program: Dual Enrollment (Bridge) Program

Purpose: To promote technological careers among high school students, especially among females and minority students in New York City

Target Group: High school juniors and seniors

Requirements: An aptitude for technology; 8th grade reading, writing and mathematics

Services: Enrollment in college courses in engineering technology, mathematics and other areas of students' interest; individual counseling; admission and tuition fees

Contact Person(s): Patrick J. Basilice, Dean
School of Continuing Education
St. John's University
Grand Central and Utopia Parkways
Jamaica, New York 11439
(212) 969-3957/8

Title or Program: Program for the Gifted

Purpose: To provide a differentiated curriculum for the gifted focusing on the development of thinking skills, problem-solving and research

Target Group: All students ages 11-13

Requirements: Identification of students by multicriteria including: IQ test, standardized reading and mathematics scores, teacher evaluation in the areas of academic studies, social and emotional development and thinking skills; short biography by student and completion of a questionnaire; selection by University Committee

Services: Saturday morning program offers six clusters from 9 a.m. - 1 p.m. (including computer science and the "unseen scientific world") with 25 participating students for a six-week cycle; lowered teacher/student ratio; close supervision and individualized attention; industrial leaders and field specialists conduct particular sessions

Contact Person(s): Ted Theodorou
Division of Cooperative Education
LaGuardia Community College
31-10 Thomson Avenue
L.I.C., New York 11101
(212) 626-8534

Title or Program: Science Related Cooperative Internships

Purpose: To provide freshman and sophomore students with exposure to the science workplace

Target Group: First-and second-year science majors in college

Requirement: Accepted as a LaGuardia Comunity College student

Services: Provides internships for matriculating students in the following local high schools:

Math Tutor in Middle College High School in Long Island; work with small group of students in a Math Lab; responsible for tutoring, attendance and progress of students

Tutor/Student Aide in Eastern District High School in Brooklyn; provide services in a number of on-going math programs

Math Assistant in Newtown High School in Elmhurst, New York; assist math teachers in class instruction and individualized tutoring; administration and operation of the Math Department

Contact Person(s): Morton Slater, Ph.D. Project Director
Elizabeth Iler, J.D.,
Director of Recruitment
Macy Medical Professions Program
the City College of New York
Shepard Hall, Room 21
New York, New York 10031
(212) 862-5970/862-5971

Title or Program: Macy Medical Professions Program

Purpose: To prepare and orient highly motivated students for college careers in medicine, science and mathematics, scientific research and science teaching

Target Group: Eighth grade students enrolled in low-income New York City schools

Requirements: NYC residents; successful completion of eighth grade from an accredited school; reading and math scores at or above grade level; academic average of 85% or better for 7th and 8th grades; a strong attendance record and completion of an application by deadline

Services: Small class size, increased number of periods in mathematics and science; opportunity to do advanced work through mentors, tutorial support, small group and individual guidance; cultural activities, visits to hospitals, museums, medical centers and science institutes; opportunities for exciting summer programs

Contact Person(s): Barbara Heller, Project Director
Center for Advanced Study in Education
City University Graduate School
33 West 42nd Street
New York, New York 10036
(212) 221-3519

Title or Program: **It's My Life: From Senior to Freshman**

Purpose: To assist secondary and postsecondary institutions in encouraging high school females to consider nontraditional careers in science and mathematics

Target Group: Female high school seniors oriented toward two-year colleges

Requirements: No special criteria

Services: Designed to supplement educational and career counseling programs; packaged program for counselors and administrators complete with agendas, exercises for participants, and sample scripts; includes math requirements, occupational information and career planning strategies; step-by-step manual (case #13-79) is available at no charge upon request

Contact Person(s): Barbara Heller, Project Director
Center for Advanced Study in Education
City University Graduate School
33 West 42nd Street
New York, New York 10036
(212) 221-3519

Title or Program: Project MART: Mathematics Anxiety Reduction Techniques

Purpose: To provide a supportive program for mathematics instructors at the secondary and post-secondary level

Target Group: Primarily relevant to instructors of remedial math and to high school math teachers

Requirements: No special criteria

Services: Six two-hour workshops with agendas, discussion guide, leader's guide and supplementary readings, exercises and activities; covers theory, application and suggested techniques that reduce math anxiety

Contact Person(s): Joseph R. Harris, Dean
Office of Special Programs
The City University of New York
555 W. 57th Street, 16th Floor
New York, New York 10019
(212) 397-5644

Title or Program: **Urban Project: Minority Students' Advancement in Science and Technologies**

Purpose: To improve minority students' math and science skills to encourage pursuit of the full range of scientific and technical careers.

Target Group: Recruitment of 100 New York City high school minority students from the College Discovery and Development Program (CDDP)

Requirements: Underprepared CDDP students with potential for math-based careers

Services: Supplemental instruction on various City University campuses; career workshops; summer program with computer training; science and technology field trips; science clubs in the high schools; tutoring in math and science in the high schools by college students

Contact Person(s): Allan Sachs, Professor
Department of Physics
Columbia University
New York, New York 10027
(212) 280-3256

James Neujahr, Associate Director
School of Education
City College of New York
Convent Avenue and 138th Street
New York, New York 10031
(212) 690-5453

Title or Program: Columbia Science Honors Program

Purpose: To offer a highly selected group of talented high school students an enrichment program in the sciences through close contact with research scientists

Target Group: Approximately 325 11th and 12th graders from 900 high schools in the tri-state area; selected 10th graders

Requirements: High school recommendations and competitive examinations

Services: Saturday morning classes and laboratories, supplemented by occasional Saturday afternoon lectures or visits to laboratories

Contact Person(s): Professor Carlos Bonilla
School of Engineering and
Applied Science
Columbia University
351 Engineering Terrace
New York, New York 10027
(212) 280-4441 (Mondays only)

Mr. Bly
Afro Arts Cultural Center
2131 Adam Clayton Powell Blvd.
New York, New York 10031
(212) 831-4410

Title or Program: **School of Engineering - Afro Arts Center in Harlem**

Purpose: To increase young students' awareness of the engineering and science field, stressing the importance of acquiring a math/science background

Target Group: Inner city youngsters, grades 5-9

Requirements: No special criteria

Services: Weekly and biweekly seminars are presented and special engineering school tours are arranged

Contact Person(s): Gil Lopez, Director CMSP
Cooper Union School of Engineering
51 Astor Place
New York, New York 10003
(212) 228-0950

Title or Program: **Comprehensive Math and Science Program (CMSP)**

Purpose: To heighten awareness of opportunities in math/science careers and to increase the pool of students in inner city high schools who show aptitude for work in math and science

Target Group: Black and Hispanic students

Requirements: Selection at 9th grade level of those who show aptitude for work in math and science; Career Awareness Program for 11th and 12th grade levels

Services: Enrollment in special math courses; college student tutorial; industry and college field trips; career seminars and college career fairs

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Contact Person(s): Dr. Lloyd Sherman, Director
SETH Program
Mt. Sinai School of Medicine
10 E 102nd Street, Room 123
New York, New York 10029
(212) 650-6089

Dr. Sol Charney
New Rochelle High School
265 Clove Road
New Rochelle, New York 10801
(914) 632-9000

Title or Program: **Secondary Education Through Health (SETH)**

Purpose: To prepare students for careers in health-related services

Target Group: Primarily minority groups with interests in medical technology and nursing

Requirements: Seniors and juniors with a 75% overall average

Services: Completion of high school curriculum combined with clinical field experience at Mt. Sinai Hospital in New York City

REGION VIII: LONG ISLAND

NASSAU
SUFFOLK

Contact Person(s): Stephen I. Tupper, Assoc. Supt.
Middle Country Schools
8 43rd Street
Centereach, New York 11720
(516) 588-0985

Title or Program: Career Internship

Purpose: Provide opportunity for students to enter challenging and exploratory career areas in conjunction with a mentor

Target Group: Grades 11-12

Requirements: No special criteria

Services: Experiences within or at laboratory, clinic setting; mentors include a veterinarian, optometrist, and other professionals

Contact Person(s): Donald A. Milne II
Director of Science Education
Deer Park Union Free Schools
81 Lake Avenue
Deer Park, New York 11729
(516) 242-6506

Title or Program: Career Oriented Modules to Explore Topics in Science (Comets)

Purpose: To encourage early adolescents to consider science-related careers; illustrate career advantages in the area; and integrate science, language arts, math and career education

Target Group: All students grades 5-9

Requirements: No special criteria

Services: Part I - supplemental science lessons with over 100 activities; use of community resource people to perform activities and discuss careers; Part II - short biographies of individuals, mostly female, who have science careers

Contact Person(s): Edward J. Murphy
Suffolk 3 BOCES
507 Deer Park Road
Dix Hills, New York 11746
(516) 549-4900

Title or Program: BOCES III - Institutes for Gifted Students

Purpose: To afford gifted students, from the primary grades through senior high, the opportunity to experience a differentiated curriculum

Target Group: Interested gifted students from component school districts

Requirements: Recommendations by school personnel; grade requirements and prerequisites vary with program

Services: Institutes focus upon computer programming, soil/plant science, animal science, general aeronautics, and marine biology; services are throughout the academic year and summer months

Contact Person(s): Jean Copak (Early Admissions Program)
Janet Snyder, Assistant to Provost
Agricultural and Technical College
at SUNY Farmingdale
Farmingdale, New York 11735
(516) 420-2000

Title or Program: Early Admissions Program

Purpose: Introduce students to technical and nontraditional programs and encourage concurrent study; to inform students of careers related to available programs and insights into required academic preparation

Target Group: All populations interested in college with particular interest in minorities and women

Requirements: College entrance requirements

Services: Early Admissions Program: for senior high school students with emphasis on female students; students later accepted as full-time college students with credits toward a degree

Career Awareness Program: for all populations; college entrance requirements; workshops presented by Career Development Office and Women's Counseling Center; campus tours presentation of career opportunities; presentations during visits to high schools by Admissions Counselor

Contact Person(s): Louisa M. Petraglia
Business Education and Work Experience Department
Mineola High School
Armstrong Road
Garden City Park, New York 11040
(516) 294-6260

Title or Program: Business Dynamics (Work Experience/Internship Program)

Purpose: To increase students' awareness of the opportunities available, analyze their own interests and abilities, set goals, and to discover the process of data collection that examines employment trends, and permits the choice of career

Target Group: Business Dynamics, grades 9-12; Work Experience/Internship, grades 11-12

Requirements: Students select courses

Services: Assistance in finding employment; monitoring and improving that performance

Contact Person(s): Jeanette Nadle
Glen Cove High School
Dosoris Lane
Glen Cove, New York 11542
(516) 671-4500

Dr. William Heston
New York Institute of Technology
Harry Schure Hall, Room 116
Old Westbury, New York 11568
(516) 686-7665

Title or Program: Pegasus Program

Purpose: To interest capable and highly motivated students exploring mathematics and science as potential careers

Target Group: Primarily seniors, and some junior high school students

Requirements: No special criteria

Services: Approximately 5-8 faculty speakers per year from the Center for the Natural Sciences of the New York Institute of Technology; topics include Cosmology, Optical Data Processing, Holography, Long-Range Sustainable Energy Systems, Robotics, Computer Graphics and Development of the Nervous System

Contact Person(s): Great Neck South Senior High School
345 Lakeville Road
Great Neck, New York 11020
(516) 482-8650

Title or Program: Math Science Activities

Purpose: To provide a series of activities in the math/science areas to stimulate interest, differentiate curriculum and improve skills

Target Group: All high school students

Requirements: No special criteria

Services: Biology Club: students visit installations such as hospitals and laboratories

Independent Study: students investigate all areas of science and communicate with scientists in the field

Math Team and Computer Club: improve math skills; write simple and more sophisticated programs

Career Conferences: speakers program of individuals successful in math/science/technical areas

Contact Person(s): Janet Kendall
Technical Recruiter
Eastern States Bank
Card Association
4 Ohio Drive
Lake Success, New York 11042
(516) 488-1500

Title or Program: Summer Internship

Purpose: To provide the student with the opportunity to work in a bank card processing environment

Target Group: College students or high school seniors and juniors

Services: Work in accounting, data center operations, microfilm, sales authorization, micrographics

Contact Person(s): Betty Brown, Chairperson
Scholarship Committee
355 Clocks Boulevard
Massapequa, New York 11758

Title or Program: **Alpha Kappa Alpha Collegiate Scholarships**

Purpose: To provide financial assistance to college-bound minority students

Target Group: Minority high school seniors

Requirements: High school graduates from Nassau or Suffolk County with a minimum average of 85 percent or better; candidate(s) should expect to be a full-time student in an accredited two or a four-year college in September of the current school year

Services: Two scholarships of $1,000 provided for college tuition costs

Contact Person(s): Reginald Tuggle
Communications Manager
Newsday
Melville, New York 11747

Title or Program: **Newsday Scholarships in Communications for Minorities**

Purpose: To financially assist minority students interested in a career in communications

Target Group: Minority students (black, Spanish-speaking American, Asian American, Native American)

Requirements: High school transcript and record of SAT/ACT scores sent to the college/university; institution will select two finalists; Newsday makes final selection; must reside in Nassau and Suffolk counties and plan to attend college/university on Long Island

Services: Tuition coverage for four years

Contact Person(s): Bart Gallagher, Director of Guidance
Cheryl Edholm
North Babylon School District
5 Jardine Place
North Babylon, New York 11703
(516) 321-3226.

Title or Program: Medical Career Chats

Purpose: To provide an opportunity to discuss job descriptions and college entrance requirements

Target Group: Advanced placement biology students

Requirements: No special criteria

Services: Speakers include local members of the medical profession (i.e., Chiropractor, Veterinarian, General Practitioner, and Psychologist); sharing of information by two Board of Education members

Contact Person(s): Bartley M. Gallagher
Director of Guidance
James Gleason
Mathematics Coordinator
North Babylon School District
5 Jardine Place
North Babylon, New York 11703
(516) 321-3367/3233

Title or Program: Exploratory Activities

Purpose: To expose students to opportunities in mathematics and statistics

Target Group: Female and minority high school students

Requirements: Varies (see below)

Services: Speakers Program: local businesses and industries contacted for assembly program and in-class speakers; participation in Minority Introduction for Technology and Engineering (M.I.T.E.), National Achievement for Outstanding Negro Students (N.A.O.N.S.) and Black College Day (see Section II for additional information)

Contact Person(s): Rodgers M. Lewis
Assistant Superintendent for
Curriculum and Instruction
Roosevelt Public Schools
240 Denton Place
Roosevelt, New York 11575
(516) 378-8220

Title or Program: High School Technical Education

Purpose: To prepare students to enter the work force above the entry level or to give them a chance at advanced credit upon entering postsecondary educatior in engineering, science or mathematics

Target Group: High school students grades 10-12

Requirements: Completion or engaged in one year of Algebra; entry examination; interest and motivation; good overall academic performance; attendance and Daly Aptitude Test; application through the Guidance Office

Services: Three-year courses in mechanical technology, electrical and architectural technology

Contact Person(s): Norman Busierre, Principal
Shoreham-Wadington River High School
Route 25-A
Shoreham, New York 11786
(516) 929-8500

Title or Program: Science Research Internships

Purpose: To expose highly motivated, high ability students to science experiences in research laboratories

Target Group: Junior and senior high students

Requirements: Varies (see below)

Services: Summer Science Internships: internships are organized with a few select university and/or research institutions such as Michigan State University and the University of Iowa

BOCES Gifted Summer Science Internships: available to selected 10th and 11th graders who show interest and ability in the sciences; placement with sponsoring scientists at Brookhaven National Laboratory and SUNY Stonybrook for a period of 4-6 weeks

Science Internships: students become integral members of a research team; nine hours per week with a sponsoring scientist after school or on weekends

Computer Program and Brookhaven Laboratory Medical Research Internship: placement of secondary students to assist in experiments in a research setting; completion of Fortran IV and rank in top 10% of class for all computer-related courses

Contact Person(s): David L. Ferguson, Professor
Department Technology and Society
SUNY at Stony Brook
Stony Brook, New York 11794
(516) 246-8645

Title or Program: People, Technology and Society (EST 190)

Purpose: To provide a course of study concerning the impact that technology has made on society

Target Group: Junior high school students

Requirements: No special criteria

Services: To study in depth five different areas: energy, computer, environment, transportation and technical writing; use of lectures, discussions and group projects, modeling, simulation and an engineering decision-making approach to problem-solving

Contact Person(s): George W. Hosker (Weather Club)
Nicholas Nanos (Biology/Ecology Club)
Memorial Junior High School
Valley Stream School District
Fletcher Avenue
Valley Stream, New York 11580
(516) 561-7787

Dennis Mulhearn (Computer Club)
South High School
Valley Stream School Distrit
150 Jedwood Place
Valley Stream, New York 11581
(516) 561-8826

Title or Program: Math/Science Clubs

Purpose: To expose to and acquaint students with the theoretical and practical application of science and computing in an informal setting

Target Group: Varies (see below)

Requirements: Interest

Services: Weather Club: all students grades 7-9; learn how to read and interpret data to predict the weather; present daily weather report over the school speaker system

Computer Club: all students grades 5-6; introduction to computers for familiarity with programming hardware and software, preparation of Department Honor Rolls, and analysis of test scores with the assistance of aides

Biology, Ecology Club: all students grades 7-9 who raise and learn how to care for plants and animals

Contact Person(s): Dennis Mulhearn
John Lufrano (Interscholastic Math League)
Mrs. Amy Leshefsky (Junior H.S. Interscholastic Math League)
South High School
Valley Stream High School
150 Jedwood Place
Valley Stream, New York 11581
(516) 561-8826

Title or Program: Math/Science Leagues

Purpose: To generate involvement and excitement about math and science

Target Group: Highly motivated, gifted students

Requirements: Varies (see below)

Services: Interscholastic Computer - Science League: grades 9-12; challenging computer exercises and monthly meets with other schools

Junior High School Interscholastic Math League: grades 7-9; peer tutoring and challenging math problem-solving; monthly meets with other schools

Interscholastic Math League: grades 10-12; peer tutoring and challenging math problem-solving; competition with other schools

Contact Person(s): Guidance Office
Nassau BOCES County Center
1196 Prospect Avenue
Westbury, New York 11590
(516) 997-5410

Title or Program: Technical Education Programs

Purpose: To assist in providing opportunities to explore technological areas and prepare for postsecondary education and careers

Target Group: All high school students

Requirements: Vary with course program

Services: Occupational Education: theory, application, and experiential activities in the areas of architectural and construction engineering technology, technical electronics, and mechanical design technology

Nassau BOCES Summer Technical Education Exploratory Institute: for students in grades 9-11 who have a special interest in math and science and recommended by school principal; two-and three-week programs with hands-on laboratory work; concentration on computer, electronics, aviation, architectural and mechanical design; visits to local high technology industries, focusing on actual work experience; visit to area colleges offering technical training opportunities; observations of classrooms and laboratories; sessions with admission and financial aid offices

SECTION II: STATEWIDE AND NATIONAL INITIATIVES IN MATH/SCIENCE AREAS

Contact Person(s): Patricia A. Gartland
American College Testing Publications
Educational Programs and Services
P.O. Box 168
Iowa City, Iowa 52240

Title or Program: American College Testing Program

Purpose: To assist in the identification and solution of educational problems and communicate to the general and professional public knowledge and ideas about education

Target Group: Students, secondary schools, institutions of postsecondary education and educational researchers

Requirements: Additional copies @ $1.50 upon request

Services: Published a booklet, **Women in Science and Technology: Careers for Today and Tomorrow,** which contains information on stereotypes of women in science and technology, compatibility of careers and family life, and what steps one can take to plan a successful career

Contact Person(s):

Upper New York:

Dr. Douglas L. Cashing
Mathematics and Communication Science
St. Bonaventure University
St. Bonaventure, New York 14778
(716) 375-2024

Metro New York:

Professor Sandra M. Pulver
Department of Mathematics
Pace University, Pace Plaza
New York, New York 10038
(212) 285-3477

Western New York:

Professor Louis F. Scholl
Trocaire College
110 Red Jacket Parkway
Buffalo, New York 14220
(716) 826-8420

Title or Program: American High School Mathematics Examination

Purpose: To indentify, stimulate interest and develop talent in mathematics through friendly competition

Target Group: High school students at all grade levels 9-12

Requirements: No special criteria

Services: Identification of students who possess unusual mathematical ability and their needs

Contact Person(s): ARIC
500 Eighth Avenue
New York, New York 10018
(212) 947-1293

37 Elk Street
Albany, New York 12224
(518) 436-4782

Title or Program: Admission Referral and Information Center of the Commission on Independent Colleges and Universities (ARIC)

Purpose: To provide information on financial aid for college-bound students

Target Group: High school counselors

Requirements: No special criteria

Services: Financial aid presentation on sources of aid and financial aid packaging examples, including Federal and State updates; presentation by financial aid specialist

Contact Person(s): Cynthia M. Serve
Science Award Committee
Bausch and Lomb Incorporated
One Lincoln First Square
Rochester, New York 14601
(716) 338-5494

Science Scholarships
Dean of Admissions & Student Aid
University of Rochester
Rochester, New York 14627
(716) 275-2121

Title or Program: Bausch and Lomb Science Award and Scholarship Program

Purpose: To encourage and assist young people who have shown an aptitude for science

Target Group: High school seniors

Requirements: Any accredited secondary school may participate; junior colleges may present the award, but the winners are not eligible for the Scholarship Competition; a senior high school should offer at least three science subjects (i.e., Physics, Chemistry, Biology) on which to base the award; a one-year course in mathematics may be substituted; a high school student may enroll upon request; winning student must have successfully completed three science courses and proved to be outstanding in science; applicants must take SAT or ACT; Achievement Tests are recommended

Services: Award presentation and scholarships of $1000-$6000 to the University of Rochester

Contact Person(s): Director of Admissions
Bell & Howell Education Group

At the following locations:

DeVry Institute of Technology,
Atlanta, Georgia
Chicago, Illinois
Irving, Texas
Ohio Institute of Technology,
Columbus, Ohio
Missouri Institute of Technology,
Kansas City, Missouri
Phoenix, Arizona
Woodbridge, New Jersey

Title or Program: Bell & Howell Education Group, Inc.

Purpose: To provide financial assistance for students selecting electronics engineering or computer science

Target Group: High school graduates who will begin study at the Bell & Howell Education Group technical institutes

Services: Sixty-five (65) full tuition scholarships, valued at approximately $12,000; receipt of a plaque for individual and the high school

Requirements: Written essay; high school record; SAT or the ACT scores

Contact Person(s): Corporate Relations Department
CIBA-GEIGY Corporation
Saw Mill River Road
Ardsley, New York 10502
(914) 478-3131

Title or Program: CIBA-GEIGY: Corporate Commitment to Science Education

Purpose: To assist in the development of qualified and creative scientists through direct exposure to science in industry

Target Group: Activities designed for both teachers and students

Requirements: Vary with activity (see below)

Services: The Science Screen Report: an educational film series aimed at keeping young people informed of the latest scientific developments; produced in cooperation with the National Science Teachers Association; distributed to school districts where major CIBA-GEIGY facilities are located

Explorer Posts: an on-site science program in cooperation with Boys Scouts of America; conducts tours of its laboratories, supplies speakers

CIBA-GEIGY College Research Assistantship Program: participation of outstanding chemistry and biology students at Pace College, College of New Rochelle, IONA College and Manhattan College High School Science Awards; winners are selected from local graduating high school classes and are eligible to apply for paid summer internship in company laboratories

Science Teacher Awards: national annual awards given to exemplary science teachers at the elementary, middle/junior high and secondary level; prize of $1000 presented at the National Science Teachers Association convention

Exceptional Black Scientists Poster Program: objective is to help acquaint general public with the achievements of outstanding black scientists and encourage more minority students to choose science careers; posters available for distribution

Contact Person(s): Clark Bailey, Director
SCOPES
Clarkson College
Potsdam, New York 13676
(315) 268-7709

Title or Program: Summer College Orientation Program in Engineering, Science and Management (SCOPES)

Purpose: To assist high school students in making discussions about their future careers, and to inform them about the college courses that are needed to fulfill their career goals

Target Group: Students who have completed their 10th, 11th, or 12th

Requirements: Application and registration with non-refundable fee; cost of $315 payable upon arrival on campus

Services: Two-week summer program on Clarkson College campus; lectures by college professors and practicing professionals active in architecture, biology, civil and environment engineering and many other fields; field trips to special interest areas; five classes per day with dialogue and evening discussion sessions; recreational activities; Minority Introduction for Technology and Engineering (MITE) scholarships are available for minority students

Contact Person(s): Consolidated Gas Supply Corporation
Employment and Employee Development
445 West Main Street
Clarksburg, West Virginia 26301

Title or Program: Consolidated Gas Supply Corporation Scholarship Program

Purpose: To provide financial aid to students

Target Group: College-bound seniors

Requirements: Obtain at least one of the following test results: SAT combined score of 1100, National Merit Qualifying Test composite percentile score of 90, American College Testing Program composite score of 90; strong leadership ability and meet the requirements of the college of their choice; must major in the following areas: Engineering, Economics, Accounting, Mathematics, Industrial Relations, Computer Science or Secretarial Science

Services: Select an accredited college or university within New York, Ohio, Pennsylvania, or West Virginia where company is located. Scholarships up to 20,000 cash for 4 years--full tuition to a maximum of $2,500 a semester if student attends a private college; payment of $17,400 cash for 4 years--$925 per school term or full tuition whichever is higher, if student attends a public college

Contact Person(s): George H. Southworth
Corning Glass Works Foundation
Corning, New York 14831
(607) 974-8489

Title or Program: Educational Institutions and Programs

Purpose: To support and enhance the living environment of different communities

Services and Target Group: Scholarships ranging from $500-$10,000 provided for faculty development, installation of computer technology facilities, concert lectures series, support of black colleges, contributions to the **United Negro College Fund** and the Southeastern Consortium to promote engineering careers for blacks; **Special National Merit Scholarships** for black engineering students; **Aid to Engineering and Aid to Business Education** benefitting women and minorities; Science Fellowships at pre-doctoral level in fields of ceramic engineering, chemical engineering, chemistry, geology, immunology, materials, science etc.; Youth for Understanding international student exchange was supported; Matching Gifts Program monies funding to colleges, universities and elementary and secondary schools.

Community Programs and Services

Grants to United Ways, direct assistance to hospitals, supports medical research and regional blood banks, aid is also given to programs such as YWCA, YMCA, Boys Clubs, Boy Scouts and Girl Scouts; daycare center in Corning, museums, and libraries

National and International Program

Catalyst for Women, M. L. King, Jr. Center for Nonviolent Change, NAACP Special Contribution Fund, National Minority Purchasing Council, National Urban League, Women's Research and Education Institute, African-American Institute, Asia Society, Center for Inter-American Relations

These are just a few of the programs and activities Corning Glass Works assists

Contact Person(s): Secretary, Financial Aid Committee
Eastman-Kodak Company
343 State Street
Rochester, New York 14650
(716) 724-4000

Title or Program: Eastman-Kodak Educational Services

Purpose:

Target Group and Services: Kodak Scholars Program has 69 public and private colleges and universities throughout the United States as participating schools and 560 students in selected studies beginning in the sophomore year and continuing until completion of requirements for a bachelor's degree; also, unrestricted supplemental grants of $300 to public and $1000 to private schools are made annually to the Department in which each scholar is enrolled

Kodak Merit Scholarship Awards in cooperation with the National Merit Scholarship Corporation, the children of active, retired, or deceased-former Kodak employees throughout the United States may compete for renewable scholarship awards ranging from $750 to $4000 annually for full-time study or until completion of requirements for a bachelor's degree

Kodak Minority Academic Awards
provides scholarships in science, engineering and quantitative business studies at 28 public and private colleges and universities for minority students; the program services 60 new students with

approximately 50 percent tuition costs for four years or completion of a bachelor's degree

Grants for Minority Undergraduate Scholarship Program operates to encourage minority participation in engineering, science, and business studies on campuses throughout the country

Kodak Fellow Program encourages the pursuit of excellence in engineering and science by providing grants to doctoral students and specific Departments within selected schools; a full tuition and an annual stipend of $700 per month to ten new doctoral students each year, beginning in the second year of matriculation and continuing for an additional two years or until completion, but not to exceed more than three years; also, unrestricted supplemental grants of $2000 are provided annually to the Department in which each fellow is enrolled

Grants for Graduate Research are provided to encourage scientific inquiry in institutions throughout the country

Kodak New-Faculty Incentive Grant Program provides financial support for a five-year period for graduates who receive a faculty appointment within three years of completion of a doctoral degree; a grant of $10,000 is awarded in the first year, with $2000 per year each successive year; unrestricted supplemental grants of $2000 are awarded annually to the Department of the new faculty member

Special Grants are awarded by Kodak to support new programs and specialized facilities

Grants to Education Associations actively engaged in fostering quality education awarded annually

Support for Continuing Education provides aid to Kodak employees to expand their knowledge and sharpen their skills through their Tuition Aid Plan, Doctoral Awards Program, Academic Assignment for Advanced Study Program and Master's and Doctoral Support program

Contact Person(s): Carmen de Jesus Rodriguez
Special Employment Coordinator
Human Resources Department
Location 12-N
The Equitable Life Assurance Society
1285 Avenue of the Americas
New York, New York 10019
(212) 554-4095

Title or Program: **Summer Actuarial Program II**

Purpose: To give students insight into the practical applications of actuarial theory and assist them in their preparation for the examinations of the Society of Actuaries

Target Group: Minority students

Requirements: College sophomores or juniors who have demonstrated a strong mathematical aptitude and a high academic standing

Services: An on-campus ten-week summer internship program which includes lectures/classwork; preparation for the Actuarial Examinations; on-campus tutoring and assignments during the regular school year; travel expenses and salary for completion of junior and sophomore year for those living outside of New York City and for compensation passing the actuarial examination; possibility of permanent employment

Contact Person(s): Ford Foundation
320 East 43 Street
New York, New York 10017

Title or Program: Ford Foundation

Purpose: To improve mathematics education and training for minorities

Target Group: Minority youth

Requirements: No special criteria

Services: Pilot project to identify a group of minority high school students in New York City with high potential for math-based career; design and test an integrated sequence of education for them: **Office of Special Programs,** City University of New York, 535 E. 80th Street, New York, New York 10021

Ford Foundation staff paper entitled, **Minorities and Mathematics,** published August 1981, which describes the Foundation's role in advancing opportunities for minorities in educational institutions across the country, and presents factual information regarding mathematical competence among students

The American Association for the Advancement of Science received a grant to assist in the establishment of a network and information clearinghouse for minority science, engineering and professional organizations: American Association for the Advancement of Science, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036

Contact Person(s): Arlene S. Chasek, Project Director
*Consortium for Educational Equity
Kilmer Campus, Building 4090
New Brunswick, New Jersey 08903
(201) 932-2071

Title or Program: **Futures Unlimited-three math-based career conferences**

Purpose: To demonstrate the vital connection between mathematics course taking in high school and high-paying, exciting careers in the sciences, high growth technologies, skilled trades, business and professions

Target Group: Female students, grades 7-12

Requirements: Interest

Services: Over 450 students accompanied by their teachers and counselors participate in "hands-on" experiences in math, science, social science, business, computer facilities conducted by college faculty during the morning sessions; groups of 20 hear women speakers from business/industry describe their careers in a wide-range group of math based fields; concurrent workshops to explore strategies to deal with math anxiety in females and to increase math course taking

*The Consortium for Educational Equity is responsible for Federal Region II: New York, New Jersey, Puerto Rico and the Virgin Islands; therefore Futures Unlimited is also conducted within New York State.

Contact Person(s): Fred Neuschler
Grumman Aerospace Corporation
Scholarship Program Office
Mail Stop B18-02
Bethpage, New York 11714
(516) 575-8268

Title or Program: Grumman Manufacturing Engineering Technology

Purpose: To provide tuition and expenses for young people entering Manufacturing Engineering Technology

Target Group: Matriculating college students

Requirements: Completion of first two years in an Engineering or Mechanical Technology curriculum in an accredited program

Services: A maximum of $4,000 per year for the final two years at any college that offers an accredited Bachelors Degree in Manufacturing Engineering Technology

Contact Person(s): Anna Waring
Selection Chairperson
The Lead Program in Business, Inc.
c/o A Better Chance, Inc.
739 Boylston Street
Boston, MA 02116

Title or Program: **LEAD Program in Business**

Purpose: To introduce outstanding minority students to business, finance, economics, and computer programming

Target Group: Minority students in the junior and senior high school

Requirements: Strong academic and leadership abilities

Services: Four-week summer program to introduce the student to the world of business, economics, finance and management through a carefully tailored curriculum; also recreational, athletic and cultural activities; scholarships and stipends awarded for expenses

Contact Person(s): Director, MIT MITE
Office of Minority Education
Room 12-185
Massachusetts Institute of Technology
Cambridge, MA 02139

Title or Program: **MIT Minority Introduction for Technology and Engineering (M.I.T.E.)**

Purpose: To introduce minority students to engineering

Target Group: Minority junior high students (American Indian, Black American, Mexican-American and Puerto Rican)

Requirements: Application process; high school transcript and letter of recommendation from current math teacher written on school stationery; interview with a member of the MIT Educational Council at a site near student's residence; transportation to and from MIT campus

Services: A three-week summer program on the Massachusetts Institute of Technology campus; work centers on mathematics, physics, engineering theory, and reading and writing of scientific materials; laboratory work in research, design and computer science; special presentations by MIT engineering faculty and practicing engineers; field trips to industrial and laboratory sites; food and lodging at no cost with limited financial assistance for travel to and from the campus

Contact Person(s): Robert White, Manager
Metropolitan Life Insurance Company
Actuarial Student Program (Area 22-S)
One Madison Avenue
New York, New York 10010
(212) 578-3897

Title or Program: Actuarial Development Program

Purpose: To encourage and recruit new potential candidates in the actuary profession

Target Group: College graduates

Requirements: Strong mathematics background

Services: Six-week training and orientation seminar; on-the-job and classroom training; assistance in the preparation of the Society of Actuaries' examination leading to the membership and a professional career

Contact Person(s): Dr. Mark Newton, Director
Ernestine Dozier, Program Associate
National Center for Research
in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
(614) 486-3655

Title or Program: National Center for Research in Vocational Education

Purpose: To prepare key leaders in the United States and abroad to deal with significant issues, problems and concerns encountered in preparing youth and adults for jobs

Target Group: Vocational education administrators, teachers, program/project directors, counselors, curriculum developers, program planners, and other professionals who have specific goals and objectives

Requirements: Inresidents attend at their convenience

Services: Access to human and material resources of the Center and Ohio State University

Contact Person(s): National Council of Teachers of Mathematics
1906 Association Drive
Reston, Virginia 22091
(703) 620-9840

Title or Program: National Council of Teachers of Mathematics

Purpose: To provide opportunities for professional exchange and development

Target Group: Elementary and secondary classroom teachers, mathematics supervisors, teacher educators and school administrators

Requirements: Membership fee

Services: Subscription to Arithmetic Teacher, Mathematics Teacher, and NCTM News Bulletin; NCTM educational materials; annual conferences; annual yearbook publication on current and past topic of interest in mathematics education

Contact Person(s): The Scholarship Program
National Medical Fellowships
250 W. 57th Street
New York, New York 10107
(212) 246-4293

Title or Program: **National Medical Fellowships, Inc.**

Purpose: To increase opportunities in medicine for minority students

Target Group: Afro-Americans, Mexican-Americans, American Indians, and mainland Puerto-Ricans

Requirements: Accepted by or are attending an accredited schools of allopathic or osteopathic medicine; citizen of the United States

Services: Financial assistance to first and second year medical students; special merit awards to outstanding juniors and seniors; serves as an advocate for minority medical students

Contact Person(s): National Scholarship Service for Negro Students (NSSFNS)
562 Third Street
Brooklyn, New York 11215
(212) 499-3700

Title or Program: **The NSSFNS New York Student - College Interview Session**

Purpose: To bring interested students and college representatives to learn about qualifications and investigate different colleges and universities

Target Group: High school juniors and seniors from the greater New York area; parents, community and school counselors also welcomed

Requirements: No special criteria

Services: Informal meeting of high school students from around the country; college representatives present

Contact Person(s): National Science Teachers Association: Discover
1742 Connecticut Avenue, N.W.
Washington, D.C. 20009
(202) 328-5800

Title or Program: Discover: Science Scholarship Program

Purpose: To financially assist college-bound high school seniors interested in the scientific field

Target Group: High school seniors

Requirements: Written article on a science topic or theme that demonstrates an understanding of scientific principles, theories, and laws, includes rationale, logic and documentation, use of clear and simple language; other accompanying rules

Services: Receipt of a $5,000 scholarship; three runner-ups will receive scholarships of $1,000; awards presented at the National Science Teachers Association convention with expenses paid

Contact Person(s):

Edna Rivera
Asst. Dean of Students
SEAS - Columbia University
529 S.W. Mudd Building
New York, New York 10027
(212) 280-2981

Keith Cockrell
National Society of Black Engineers
School of Engineering
5400 S.W. Mudd Building
New York, New York 10027
(212) 280-7821
* student representative

Ron Simmons, Assistant Dean
Cornell University
167 Olin Hall
Ithaca, New York 14853
(607) 256-7414

Paul DeRusso
Assistant Dean
School of Engineering
Johnson Engineering Center
Rensselaer Society of
Black Engineers
Rensselaer Polytechnic Institute
Troy, New York 12180
(518) 270-6620

Reynolds Winslow
College of Engineering
Syracuse University
111 Link Hall
Syracuse, New York 13210
(315) 423-4419

Society of Hispanic Professional Engineers
Office of Minority Student Affairs
Troy Building
RPI
Troy, New York 12180
(518) 270-6272

Title or Program: **National Society of Black Engineers**

Purpose: To assist interested minority students in preparing for academic careers in engineering

Target Group: Minority high school students

Requirements: No prerequisites

Services: Members will host pre-college students for day-long campus visits; assist in selecting schools, completing applications, assessing academic background needed for admission and study

Contact Person(s): The National Technical Association, Inc.
1425 H Street, N.W.
Suite 701
Washington, D.C. 20005
(202) 638-6370

Title or Program: **The National Technical Association**

Purpose: To develop and integrate the minority technical input into the total scientific process, and to bring all minorities an awareness of their technical contribution to the establishment of the world's societies

Target Group: Minority groups

Requirements: Corporate and/or organization membership of $250-$2,500

Services: Career Awareness Program (CAP): technical and scientific career program conducted in junior and senior high schools in colleges to reinforce and expand the science/technical curricula in schools

Skills Bank: skills and job referral system serves as a ready source for employers to reach qualified, employable minorities and women in science and other technical areas; maintenance of current files on job opportunities in these areas

Publications: a quarterly technical journal featuring articles on science and technology in the minority community and presentations of technical research papers written by minorities

Speakers Bureau: resource of minorities in science and technology make excellent speakers for events in any area of the country

Meetings and Conventions: annual national convention, held in August, largest single gathering of minority scientists and technologists in attendance; local meetings held regularly according to schedules determined by chapter officers; regional meetings held quarterly

Awards: outstanding achievements for students and professionals through national, local professional chapters and student campus chapters

Membership: corporate, organizational membership ranging from $250-$2,500; includes quarterly journal for persons with degree in architecture, mathematics, and natural sciences, person engaged in technical occupations and college students engaged in technical science curriculum

Corporate membership benefits include:

1. Ten (10) percent discounts on Display and Opportunity Fair Booth space at all Regional Student Symposia and Annual Conventions

2. Ten (10) percent discounts on full page advertisements in the Journal

3. Ten (10) percent discounts on Job-Referral placements

4. Free library subscription to the Journal

Contact Person(s): New York Mathematics League
P.O. Box 426
Coram, New York 11727

Title or Program: New York Mathematics League

Purpose: To stimulate interest and develop talent through friendly competition

Target Group: Any student in Math 11 and Math 12

Requirements: Any student who has completed Math 9 and Math 10

Services: Competition between schools within regions; six contests on various mathematical problem; six questions in 30 minutes

Contact Person(s): Richard V. Andree
Oklahoma Educational Computer Users Program
Math Department
University of Oklahoma
Norman, Oklahoma 73019

Title or Program: Oklahoma Educational Computer Users Program

Purpose: Provide information on educational users of computers to in-state and out-of-state educators

Target Group: All interested educators

Requirements: No special criteria

Services: Information regarding grants; programs and other relevant items; round robin software exchange; sponsors workshops, conferences and show and tell sessions on computing; membership and subscription to The Computing Teacher @ $35/year

Contact Person(s): Organization for Equal Education of the Sexes Inc.
744 Carroll Street
Brooklyn, New York 11215
(212) 788-3478

Title or Program: **Tabs: Aids for Ending Sexism in School**

Purpose: To provide classroom aids for ending sexism in schools

Target Group: Teachers and students K-12

Requirements: Magazine subscription @ $20 per year; posters and other items vary

Services: Publish lesson plans, activities project ideas, and posters on women in math and science; reviews of curricular materials and a quarterly magazine; Tabs does not focus exclusively on math/science/technology, but it does include this subject among its topics

Contact Person(s): Phi Chi Theta Foundation
718 Judah Street
San Francisco, California 19122

Title or Program: **Phi Chi Theta Foundation**

Purpose: To provide financial assistance to women entering the fields of business administration and/or economics

Target Group: Female students

Requirements: Full time students with at least a high freshman standing; filing of applications and all necessary supporting documents; scholastic achievement, leadership potential

Services: Scholarships ranging from $100-$500

Contact Person(s): Personnel Officer
Plum Island Animal Disease Center
P.O. Box 848
Greenport, New York 11944
(516) 323-2500

Title or Program: *Research Apprenticeships and Employment Opportunities

Purpose: To stimulate a broader interest in the minority community in careers in science and engineering, and to establish individual working relationships between students and active researchers

Target Groups: Varies (see below)

Requirements: **Research Apprenticeships for Minority High Schoolers:** for minority high school students; recruitment details outlined by the United States of America Agriculture Science and Education Administration; meaningful research experience through which the students will develop a new insight to the science base of food and agriculture research

Services: Stay-in-School Program: for high school and matriculating post-secondary students interested in science and agriculture; federal guidelines outlined in brochure include U.S. citizenship, financial need, and availability for work throughout the years; a one-year placement in a setting related to the science and agriculture field; employment not to exceed 20 hours during school and possibly full-time during holidays and vacations

Research Apprenticeship Program:

Minority students and young women who are in the 11th and 12th grades and in the upper 25 percent of their class; economic need; a ten-week summer work experience in jobs such as lab technician, animal caretaker, etc.; to provide opportunities for minority students and women to experience first hand

* Check for continued operation of these three programs

Contact Person(s): Project MOVE/VOICE
Regional Planning Center
Albany/Schoharie/Schenectady
BOCES
1015 Watervliet-Shaker Road
Albany, New York 12205
(518) 456-9281

Title or Program: **Project MOVE/VOICE (Vocational Options in Creating Equality)**

Purpose: To promote sex-fair vocational education and elimate sex bias and sex-role stereotyping, help schools increase nontraditional enrollments, to collect and maintain resources on sex equity issues

Target Group: Students, teachers and administrators, guidance counselors and community organizations

Requirements: Interest

Services: Quarterly newsletter contains articles on issues, activities, resource materials and consultant services related to sex equity; information packets on such issues as expanding nontraditional options, careers and mathematics are distributed; sex equity curriculum and instruction; workshops and technical assistance on recruiting and supporting the nontraditional student, working with business and industry to expand student career options are offered; six credit, two semester, graduate level course provided through SUNY Albany after July 1983

Contact Person(s): George R. Simms
College of Engineering
Southern University
Baton Rouge, Louisanna 70813
(504) 771-3798

Title or Program: **Engineering Summer Institute (ESI)**

Purpose: Orientation of students toward careers in engineering by creating an understanding of the analytical thought process and engineering activities

Target Group: High quality United States minority high school students interested in engineering careers

Requirements: Students who have completed 10th or 11th grade, excluding graduated seniors

Services: Participants receive intensive training in mathematics, physics, computer programming, technical writing, and engineering science; also includes project design work and field trips

Contact Person(s): United States Achievement Academy
2570 Palumbo Drive
Lexington, Kentucky 40509

Title or Program: United States National Mathematics Awards

Purpose: To pay tribute to the development and contributions of outstanding math students who have contributed to their school and community

Target Group: Any "outstanding" student in math 12

Requirements: Any "outstanding" student who has completed math 9-11 and is currently enrolled in math 12; based on recommendation of school personnel

Services: Winner enters math yearbook

Contact Person(s): Walter S. Smith, COMETS Director
University of Kansas
205 Bailey Hall
Laurence, Kansas 66045
(913) 864-4435

Title or Program: Career Oriented Modules to Explore Topics in Science (COMETS)

Purpose: To encourage early adolescents to consider a science-related career, increase student interest and awareness in science, and involve community resource people to help teach science lessons

Target Group: Grades 5-9

Requirements: No special criteria

Services: Designed to be integrated with regular math or science classes; materials developed and field tested with support from the National Science Foundation; consist of much experimentation and hands-on experiences in each module; set of 24 biographical profiles of women in science; useful to science, language arts and career educators

Contact Person(s): Science Service
1719 N. Street, N.W.
Washington, D.C. 20036
(202) 785-2255

Title or Program: Westinghouse Science Talent Search

Purpose: To provide financial assistance to talented and interested young future scientists

Target Group: High school seniors

Requirements: College-bound seniors; an independent research report of 1,000 words; completion of a Personal Data Bank; national test scores and high school transcript; other accompanying rules

Services: Forty scholarship winners are chosen to attend the five-day all expense paid visit to Washington, D.C.; receipt of one $12,000, two $10,000, three $7,500, four $5,000, and thirty $500 awards; an Honors Group formed

Contact Person(s): Barbara L. Block
Xerox Corporation
800 Phillips Road, Building 105
Webster, New York 14580
(716) 422-1152

Title or Program: Xerox Corporation

Purpose and Services: **Xerox Technical Minority Scholarship Fund:**
designed to provide monetary incentive to minorities enrolled in technical degree programs to assist in the completion of the program; annual scholarship funding for undergraduate or graduate students; summer intern position for students awarded scholarships

Xerox Science Consultant Program: for inner city elementary students designed to motivate elementary school students and stimulate an interest in science; xerox technical employees conduct science demonstrations and experiments on a bi-weekly basis at various inner city schools in Rochester

PRIS^{2}M **(Program for Rochester to Interest Students in Science and Math):** designed to motivate junior and senior high students grades 9-12 who take Regents level courses and maintain consistently good grades; science/math curriculum for junior high students, summer workshops, science teams, and internships; participation by Xerox technical employees

SECTION III: AN ANNOTATED LIST OF MATH/SCIENCE ACTIVITIES FOR THE POSTSECONDARY POPULATION

The following institutions provide degree programs, support services and other assistance for high school graduates, re-entry women, matriculating college students and graduate students aspiring to higher level programs. Special programs in math and science for the females and members of minority groups also exist within this grouping.

Adelphi University, Garden City, New York 11530, Bernette Henry, Director, (516) 294-8700
Provides the site for the Higher Education Opportunity Program (HEOP) summer program, accepts pre-freshmen and assists in providing support services for the underprepared student.

Albany Business College, Admissions Office, 130 Washington Avenue, Albany, New York 12210, Janet Anderson, Director, (518) 449-7163
Offers an Associate Degree in Computer Programming.

Borough of Manhattan Community College of CUNY, 1633 Broadway, New York 10019, Doris B. Fitzgerald, Dean of Faculty, (212) 262-5460
Conducts a Math Learning Center, a Science Learning Center and Math Laboratory for minority and other college students; funded by Minority Institutions Science Improvement Program.

Bronx Community College of CUNY, University Avenue and West 181 Street, Bronx, New York 10453, Susan Forman, (212) 220-6341

The College has institutionalized an intervention strategy for those fearful of mathematics and who failed to pass the City University Skills Assessment examination in mathematics; An Interdisciplinary Approach to the Problem of Math Anxiety in Community College Students involves tutoring, and a four-session math anxiety workshop.

Capital District Educational Opportunity Center, Washington and Front Streets, Troy, New York 12180, (518) 273-1900
One of nine programs that involves vocational, academic, and counseling services, and is sponsored by Hudson Valley Community College.

Cayuga Community College, Franklin Street, Auburn, New York 13021, David Martin, Director, (315) 255-1743
Provides a learning skills center for entering students equipped with student tutors, audio tapes, film equipment, and micro-computer software.

Columbia College of Columbia University, Summer Humanities and Science Program, New York, New York 10027, Sharon Combs, Director, (212) 280-2458
An intensive four-week program for pre-freshmen at Columbia College which includes diagnostic examinations, coursework and tutorials in chemistry, calculus, English composition and other subjects.

Columbia University, School of General Studies, 408 Lewisohn, New York, New York 10027, Barbara Moss, Director, (212) 280-2766

Location of one of the Higher Education Opportunity Programs which provides support services for students with the academic and economic requirements; must be over 21 years of age and a New York State resident; includes a six-week preparatory summer program, tutoring, counseling and financial aid

Columbia University, **Womanspace**, 211 Lewisohn Hall, 116 & Broadway, New York, New York 10027, Lorna Edmundson, (212) 280-2820
This Project for the Development of Mathematics and Science Careers designed to increase the participation of unemployed and underemployed

Crandall Library, Job Information Center, City Park, Glens Falls, New York 12801, Christine McDonald
Provides information on job opportunities and counseling services, such as resume preparation, interviewing techniques and other relevant topics

Eaton Corporation, AIL Division, Commack Road, Deer Park, New York, New York 11729, Edna Haugh and Joseph Kadlec, (516) 595-3120/5134
Program provided for college students include: 1) Work/Study Program which allows for practical experience for students in two year colleges; 2) Co-op Program for electrical engineering majors presently in college--students spend three months in the classroom and three months in the work environment until completion of degree; 3) Summer Intern Program for EE/CS Students in which students are employed for the summer months and who plan to continue as seniors until completion. Students are then hired as full-time engineers; for electrial engineering and computer science majors

4) Operation Scholarship for college students, freshmen, sophomores, juniors and seniors in electrical engineering program and includes summer employment and $1,500 per year scholarship tuition

Elizabeth Seton College, Medical Laboratories Technician Program, 1061 N. Broadway, Yonkers, New York 10701, Russell C. Barone, Director, (914) 969-4000 (Ext. 240)
A program focused upon internship experiences to better prepare students for careers in hospitals, and industrial laboratories

Fordham University, Rose Hill Campus, Higher Educational Opportunity Program, Thebaud Hall, Room 304, Bronx, New York 10458, David Ferguson, Director, (212) 579-2638
Location of one Higher Education Opportunity Program which provides support services for students with the academic and economic requirements; includes a six-week preparatory summer program, tutoring, counseling and financial aid

Fulton-Montgomery Community College, Johnston, New York 12095, Robert W. Kuseck, Dean, or John D. Vadney, (518) 762-4651
This college offers majors in mathematics, sciences, pre-med, computer science and data processing technologies.

Hofstra University, Office of Admissions, Hempstead, New York 11550, Timothy Dewey, Admissions Counselor, (516) 560-6700
This University has degree programs in mathematics, engineering science, administrative computer systems and other areas.

Hostos Community College of CUNY, Department of Natural Sciences, 475 Grand Concourse, Bronx, New York 10457, (212) 960-1101/02
The Medical Laboratory Technician Program prepares students for careers in medical technology and includes conducting tests in microbiology, hematology, serology and clinical chemistry.

Hudson Valley Community College, 80 Vandenburgh Avenue, Troy, New York 12180, (518) 283-1100
The Community College has regular degree programs in Biology and Medical Laboratory Technology, Chemical Engineering Technology, Electrical Engineering Technology, Engineering Science, Mathematics and Science and Radiologic Technology. Also administers the Equal Opportunity Centers on Washington and Front Streets, Troy, New York, (518) 273-1900.

Industrial-Labor-Education Council, 209 Elizabeth Street, Utica, New York 13501, Nancy Roberts, Executive Director, (315) 724-9805
Organizes an Occupational Awareness Institute for Science and Math Teachers on awareness of industrial needs on the job and for entry level positions

Ithaca College, School of Humanities and Sciences, Physics Department, Ithaca, New York 14850, Dr. Frank Darrow, Dr. P.A. Smith, Chairperson, (607) 274-3102
Provides graduates degrees in chemistry, physics/computing, and math/physics and also a five-year engineering degree in a joint program with Cornell University

Jamestown Community College, Division Applied Sciences and Mathematics, 525 Falconer Street, Jamestown, New York 14701, Dr. Carol A. Lucey, Chairperson, (716) 665-5220

Contains two-year degree programs in engineering, computer science, physics, mathematics, data processing, electrical and mechanical engineering

Junior College of Albany, Higher Education Opportunity Program (HEOP), 140 New Scotland Avenue, Albany, New York 12208, Vi Jay MacWan, Director, (518) 445-1764

Sponsors an Invitation to Science Program for underprepared students; provides support services for the background needed for effective study of science courses at the college level; location of one of the HEOP throughout the State

Kingsborough Community College, 2001 Oriental Blvd., Brooklyn, New York 11235, Professor Miles Goodman, (212) 934-5000

Offers two-year programs in chemistry, physics, mathematics, computer science and data processing with some student support services

LaGuardia Community College, Division of Cooperative Education, 31-10, Thomson Avenue, Long Island University, New York 11101, (212) 626-5484

Operation of internships in business/industrial and other settings are a large part of this program.

Manhattan College, Higher Education Opportunity Program (HEOP), Riverdale, New York 10471, (212) 920-0100

To meet the specific needs of its students, HEOP primarily provides testing, counseling, tutoring, academic advice and financial assistance to the underprepared.

Marist College, Director of Admissions, Poughkeepsie, New York 12601, (914) 471-3240
A degree granting institution with programs of study in biology, chemistry, computer mathematics, computer science, environmental science, mathematics and medical technology

Molloy College, Biology Department, 1000 Hempstead Avenue, Rockville Centre, New York 11570, Sister Justine Jones, (516) 678-5000
One aspect of a Biology major is "Field Experience in Biology" with cooperating agencies off campus such as hospitals, laboratories and research settings

Nassau Community College, Dean of Instruction Math/Sciences, Stewart Avenue, Garden City, New York 11530, Dr. Robert Messina, (516) 222-7500
A variety of two-year degrees are offered in areas such as Environmental Science and Forestry, Civil Engineering Technology, Data Processing, Computer Science, Industrial Technology and Electronic Instrumentation Technology

National Urban League, Summer Internship Program (SIP), 95 Livingston Avenue, Albany, New York 12207, Johnsie M. Williams, (518) 463-3121
An opportunity for minority undergraduate students in engineering, business, accounting and math majors to gain summer employment in the businessworld

New York City Technical College of CUNY, Office of Admissions, 300 Jay Street, Brooklyn, New York 11201, (212) 643-5560
Offers degree programs in the areas of Commerce Allied Health and Natural Sciences, and Engineering Technology among others.

Niagara Frontier Industry Education Council, 2 Pleasant Avenue, West Lancaster, New York 14086, Dorothea W. Sterne, Executive Director, (716) 686-2032

Offers Computer Literacy: Decision-Making Applications, a course for teachers.

North Country Community College, Radiologic Technology Program, 20 Winona Avenue, Saranac Lake, New York 12983, Paul R. Monagan, Director, (518) 891-2915

Conducts a program for high school graduates with a math/science background preparing to become licensed technicians and enter biological/radiological technology programs; provides support services such as tutorial help, a learning resource center and learning lab

North Tonawanda Public Library, Reference Department, 505 Meadow Drive, North Tonawanda, New York 14120

Provides available career information for high school and college students while scheduling occasional "career talks"

Onondaga Community College, **A Support Program for Women in Engineering Technologies**, Counseling Department, Route 173, Syracuse, New York 13215, Charles Mattson and Marilyn Katz, Coordinators, (315) 469-7741 (Ext. 383)

A campus-based support system among women in engineering, cooperating institutions and provisions for job placement, seminars and programs

Onondaga County Public Library, Job Information Center, 335 Montgomery Street, Syracuse, New York 13202, Jeanne Biggins, (315) 473-2828
Provides information resources, guidance and services to individuals involved in job/career planning, career exploration and job seeking.

Onondaga-Madison BOCES, Adult and Continuing Education, 500 Hickory Street, Liverpool, New York 13088, Sylvia D. Connolly, Director (315) 451-6054
Adult education includes the Skill Training for Employment Program (STEP) to provide job training for out-of-school youth, unemployed adults, displaced workers and nontraditional students. Courses offered are computer programming technician, medical assistant, microprocessor and electronics technician.

Paul Smith's College, Paul Smiths, New York 12970, Joel Wincowski, Dean, (518) 327-6227
Located in the Adirondack mountains, this college curriculum includes Pre-Professional Forestry, Forest Technician, and Mathematics concentrations.

Polytechnic Institute, **Women's Programs**, 333 Jay Street, Brooklyn, New York 11201, Dr. Pamela E. Kramer, Director, (212) 643-3943
The women's programs include Minority Women in Management and Technical Fields and Graduate Re-entry Programs in Technical Fields for adult women who are changing careers.

Rochester Institute of Technology, One Lomb Memorial Drive, Rochester, New York 14623, (716) 475-2411
Contains science and engineering degree programs for undergraduate and college transfers

Schenectady County Community College, 78 Washington Avenue, Schenectady, New York 12305, Department Math, Science and Technology; Dr. George H. Potter, Chairperson, (518) 346-6211
A.A.S. Degree programs are offered in the following technologies: chemical, electrical, management engineering, non-destructive testing and fire protection.

Schoeller Technical Papers, Inc., P.O. Box 250, Pulaski, New York 13142, Roger Woods, Manager Industrial Relations, (315) 298-5658
This corporation operates a pulp and paper science co-op program for college seniors involved in the pulp and paper science curriculum.

Southampton College of Long Island University, Office of Cooperative Education, Montauk 21, Southampton, New York 11968, Hinda C. Pollock, Director, or Kevin Coveney, Director of Admissions, (516) 283-4000
Provides paid career-related jobs for which students earn college credit; positions are available with National Laboratories, Fisheries, Aquaria, Vineyards, Research Firms, Museums, and women in mathematics and science careers by providing opportunities in computer science and statistics.
Aquaculture Farm for science majors and a wide variety of Financial Institutions for Business Math majors.

St. Bonaventure University, Medical Technology Program, St. Bonaventure, New York 14778, Donald C. Burkard, (716) 375-2400
The Medical Technology Program is four years, with one year spent in the Women Christian Association Hospital in Jamestown.

St. John's University, Special University Programs, Jamaica, New York 11439, Marguerite M. Bagarozzi, Director, (212) 990-6565
The University has a Self-Paced Program designed to assist the underprepared student in pursuing studies in the health sciences; includes tutoring, special workshops and academic advisement.

SUNY Agricultural and Technical College, Director of Admissions, Cobleskill, New York 12043, (518) 234-5011
Offers associate degrees in Biological Technology, Histotechnology Option of Medical Laboratory Technology, Environmental Health Option of Public Health, Technology and Chemical Technology.

SUNY Agriculture and Technical College at Farmingdale, Educational Opportunity Center of Long Island, Farmingdale, New York 11735, Edward T. Farkas
This is another location for the Educational Opportunity Center designed to provided support services for the educationally and economically underprepared student; prerequisite math and sciences courses for college admittance are provided.

SUNY Albany, Continuing Education, 1400 Washington Avenue, Albany, New York, Victor DeSantis, (518) 455-6129
This component of the University conducts a series of conferences designed for teachers to heighten the interest and awareness of the need for science-trained students; participants receive graduate credit.

SUNY Binghamton, Programs in Professional Education, Binghamton, New York 13901, Dr. Mark Mahlios, Director, (607) 798-2000
Offers Bachelor degrees in mathematics, geology, biology, or physics for those who wish to teach science in secondary schools and also Masters of Science in Education

SUNY Buffalo, Educational Opportunity Center, 465 Washington Street, Buffalo, New York 14203, Dr. Peter B. Nami, Coordinator of Curricula, (716) 849-6717
Provides a special program to develop word-processing skills for those who are academically or economically underprepared

SUNY College of Environmental Science and Forestry, Forest Technician Program, Wanakena Campus, Wanakena, New York 13695, W.E. Suhr, Acting Director, (315) 848-2566
A two-year degree program is offered.

SUNY College of Technology, 811 Court Street, Utica, New York 13502, Dr. Michael F. Middaugh, Director of Research and Planning, (315) 792-3300
Provides an array of technical programs and career options including cooperative arrangements with local industry

SUNY Cortland, Office of Admissions, Cortland, New York 13045, Dr. T. O'Loughlin, Math Department Chairperson, (607) 753-4326
Provides graduate degrees in the areas of Master of Science in Education: Secondary Education in Mathematics; Master of Science in Education in Secondary Science: Biology, Chemistry, Earth Science, and Mathematics and Physics; Master of Science in Education: Secondary Physics and Mathematics

SUNY Fredonia, Educational Opportunity Program, 2148 Fenton Hall, Fredonia, New York 14063, Carmela Dubose, (716) 673-3111
A program that provides many support services including tutoring, workshops, and academic counseling for underprepared students.

SUNY Geneseo, Equal Opportunity Program, Geneseo, New York 14454, (716) 245-5725
One location of several E.O.P. centers that provides many support services for underprepared students. Geneseo also offers programs in Chemistry, Medical Technology, Computer Science with preprofessional studies in pre-medicine, pre-veterinary medicine, pre-pharmacy and pre-optometry.

SUNY Maritime College, Office of Admissions, Fort Schuyler, Bronx, New York 10465, (212) 892-3000
Offers undergraduate programs in electrical engineering, marine engineering, nuclear science and engineering, ocean engineering, computer science--math and naval science; combines curriculum with marine industry

SUNY Plattsburgh, Educational Opportunity Program, Plattsburgh, New York 12901, Keith Smith, (518) 564-2290
One location for the Educational Opportunity Program for underprepared students with potential; majors include medical/technology, biochemistry, and biophysics

SUNY Upstate Medical Center, College of Health Related Professions, 155 Elizabeth Blackwell Street, Syracuse, New York 13210, Kate Toman and Bernie Manor, (315) 473-4570
A two-year program and four-year program are available in eight Allied Health areas.

Teachers College, Columbia University, **Programs in Bilingual/Bicultural Education**, Box 122, New York, New York 10027, Prof. Isaura Santiago
The bilingual education program combines intensive studies in this area with cooperating departments for specializations including science education.

The College of Staten Island of CUNY, St. George Campus, 130 Stuyvesant Place, Sunnyside Campus, 715 Ocean Terrace, Staten Island, New York 10301
A.A.S. and B.S. degrees in computer science, engineering technologies and medical technologies are offered.

The Singer Company, Link Flight Simulation Division, Colesville Road, Binghamton, New York 13902, Joan McTiernan
Provides an internship for college students.

Troy Public Library, Job Information Center, 100 Second Street, Troy, New York 12180, (518) 274-7071
The library makes available information on many types of careers including educational requirements, job descriptions, salaries, and advancement.